


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> BONANZA 1023-5D2DS							
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES							
<b>4. TYPE OF WELL</b> Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>							
<b>6. NAME OF OPERATOR</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.						<b>7. OPERATOR PHONE</b> 720 929-6515							
<b>8. ADDRESS OF OPERATOR</b> P.O. Box 173779, Denver, CO, 80217						<b>9. OPERATOR E-MAIL</b> julie.jacobson@anadarko.com							
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> UTU33433			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>							
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>							
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>							
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>		<b>SECTION</b>		<b>TOWNSHIP</b>		<b>RANGE</b>		<b>MERIDIAN</b>	
<b>LOCATION AT SURFACE</b>		514 FNL 516 FWL		NWNW		5		10.0 S		23.0 E		S	
<b>Top of Uppermost Producing Zone</b>		485 FNL 603 FWL		NWNW		5		10.0 S		23.0 E		S	
<b>At Total Depth</b>		485 FNL 603 FWL		NWNW		5		10.0 S		23.0 E		S	
<b>21. COUNTY</b> UINTAH			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 485			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 1923							
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 760			<b>26. PROPOSED DEPTH</b> MD: 8566 TVD: 8564							
<b>27. ELEVATION - GROUND LEVEL</b> 5242			<b>28. BOND NUMBER</b> WYB000291			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8496							
<b>Hole, Casing, and Cement Information</b>													
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>		<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>		
<b>Surf</b>	11	8.625	0 - 2360	28.0	J-55 LT&C	0.2	Type V		180	1.15	15.8		
							Class G		270	1.15	15.8		
<b>Prod</b>	7.875	4.5	0 - 8566	11.6	I-80 LT&C	12.5	Premium Lite High Strength		280	3.38	11.0		
							50/50 Poz		1130	1.31	14.3		
<b>ATTACHMENTS</b>													
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
<b>NAME</b> Gina Becker				<b>TITLE</b> Regulatory Analyst II				<b>PHONE</b> 720 929-6086					
<b>SIGNATURE</b>				<b>DATE</b> 10/14/2011				<b>EMAIL</b> gina.becker@anadarko.com					
<b>API NUMBER ASSIGNED</b> 43047520930000				<b>APPROVAL</b>  Permit Manager									

RECEIVED: October 26, 2011



**Kerr-McGee Oil & Gas Onshore. L.P.****BONANZA 1023-5D2DS**

Surface: 514 FNL / 516 FWL      NWNW  
BHL: 485 FNL / 603 FWL      NWNW

Section 5 T10S R23E

Uintah County, Utah  
Mineral Lease: UTU-33433

**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1279	
Birds Nest	1565	Water
Mahogany	1914	Water
Wasatch	4300	Gas
Mesaverde	6401	Gas
MVU2	7384	Gas
MVL1	7934	Gas
TVD	8564	
TD	8566	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

10/12/2011

**RECEIVED: October 14, 2011**



**7. Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8564' TVD, approximately equals  

$$\frac{5,481 \text{ psi}}{0.64 \text{ psi/ft}} = \text{actual bottomhole gradient}$$

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Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,585 psi (bottom hole pressure  
 minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-  
 (0.22 psi/ft-partial evac gradient x TVD of next csg point))

**8. Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

**9. Variances:**

Please refer to the attached Drilling Program.  
 Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

**Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.



Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

#### **Variance for BOPE Requirements**

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

#### **Variance for Special Drilling Operation (surface equipment placement) Requirements**

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and



on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

**Variance for FIT Requirements**

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

**Conclusion**

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

**10. Other Information:**

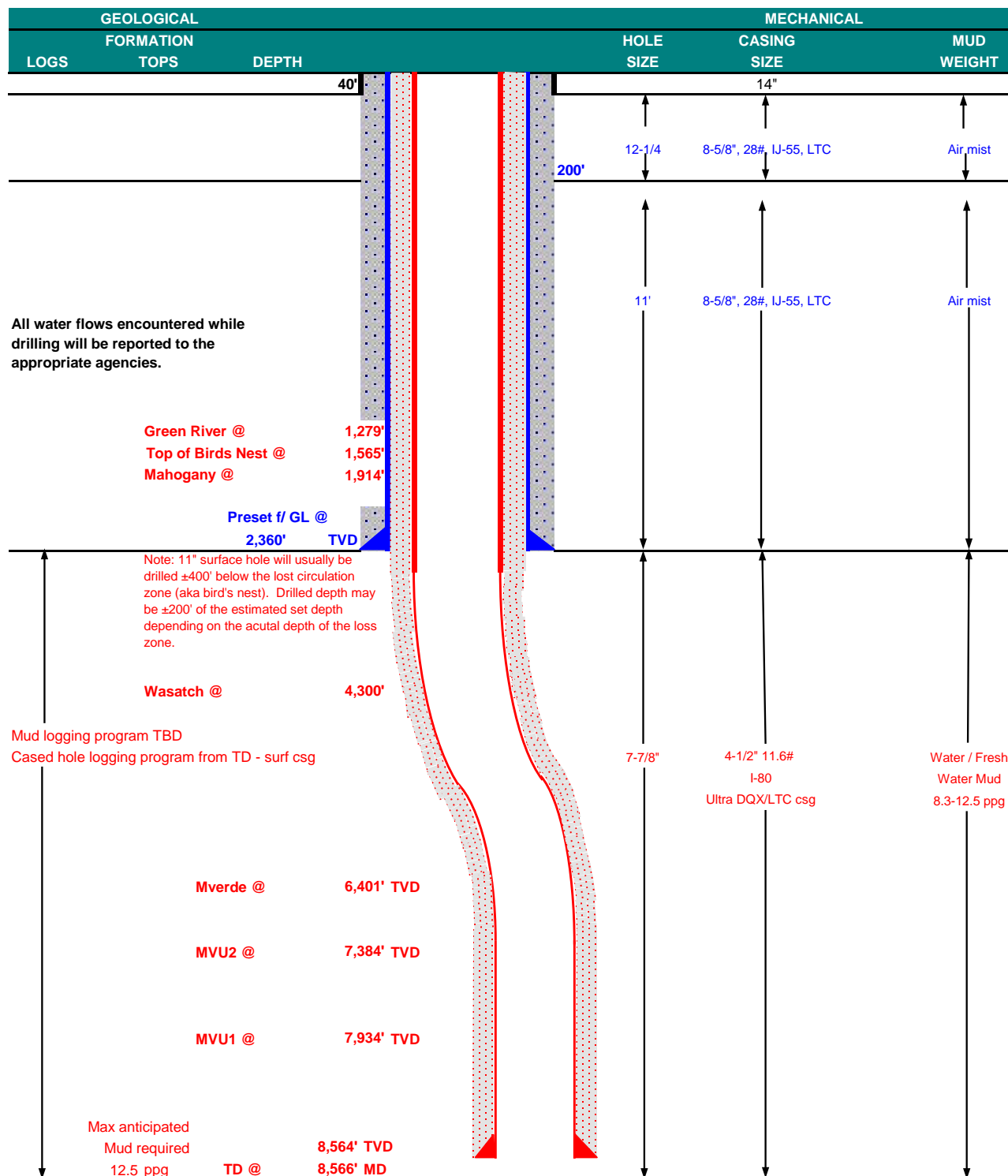
Please refer to the attached Drilling Program.





## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	October 13, 2011	
WELL NAME	BONANZA 1023-5D2DS					TD	8,564'	8,566' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		5241.7
SURFACE LOCATION	NWNW	514 FNL	516 FWL	Sec 5	T 10S	R 23E		
	Latitude:	39.983831	Longitude:	-109.358286		NAD 83		
BTM HOLE LOCATION	NWNW	485 FNL	603 FWL	Sec 5	T 10S	R 23E		
	Latitude:	39.983911	Longitude:	-109.357976		NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde							
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.							







## KERR-McGEE OIL & GAS ONSHORE LP

### DRILLING PROGRAM

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						LTC		DQX	
CONDUCTOR	14"	0-40'				BURST	COLLAPSE	TENSION	
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,360	28.00	IJ-55	LTC	2.29	1.70	6.01	N/A
						7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	1.14		3.32
	4-1/2"	5,000 to 8,566'	11.60	I-80	LTC	1.11	1.14	6.66	

**Surface Casing:**

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,796'	Premium Lite II +0.25 pps	280	20%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	4,770'	50/50 Poz/G + 10% salt + 2% gel	1,130	35%	14.30		1.31
			+ 0.1% R-3					

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

**DRILLING ENGINEER:**

Nick Spence / Danny Showers / Chad Loesel

DATE: \_\_\_\_\_

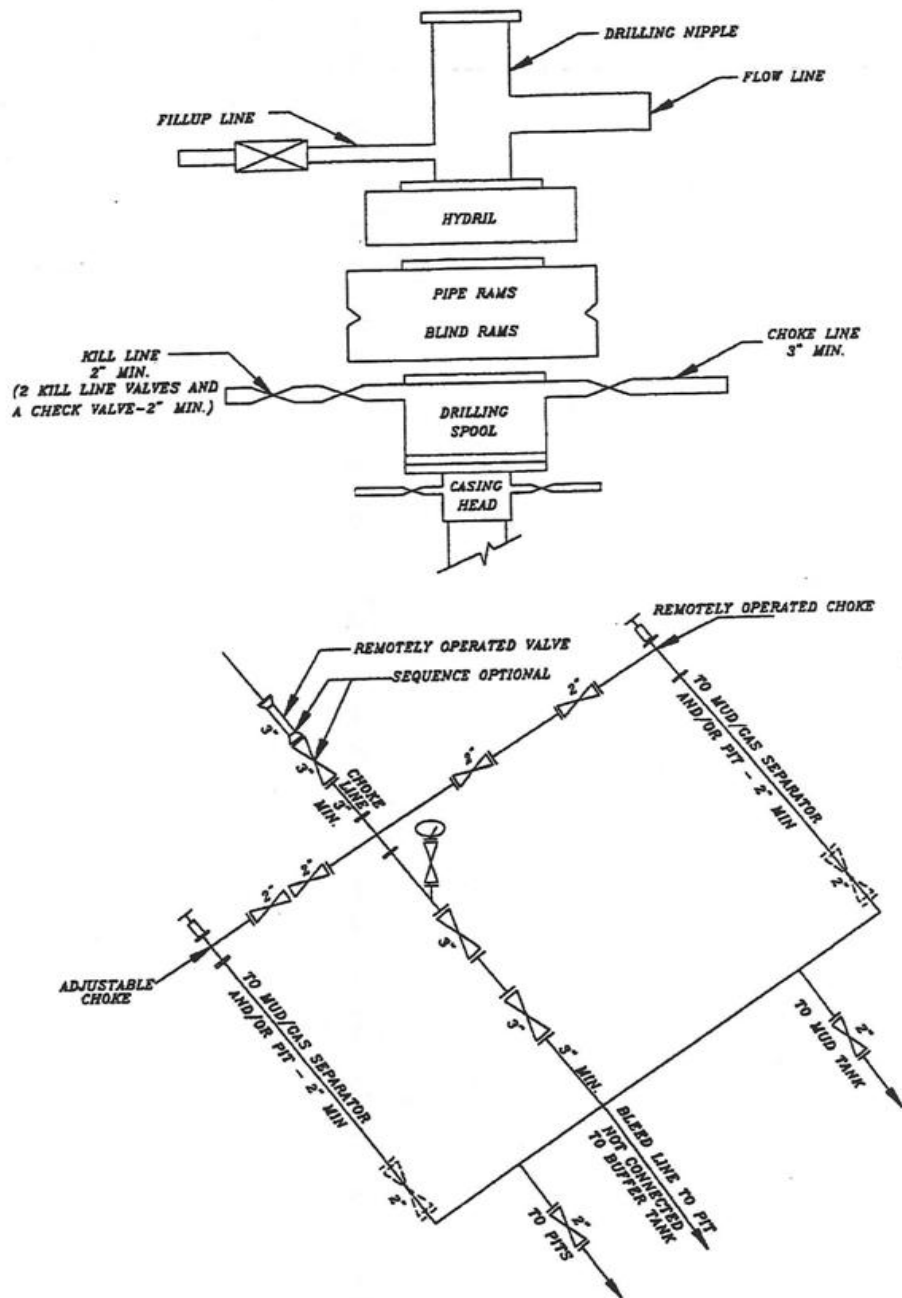
**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE: \_\_\_\_\_

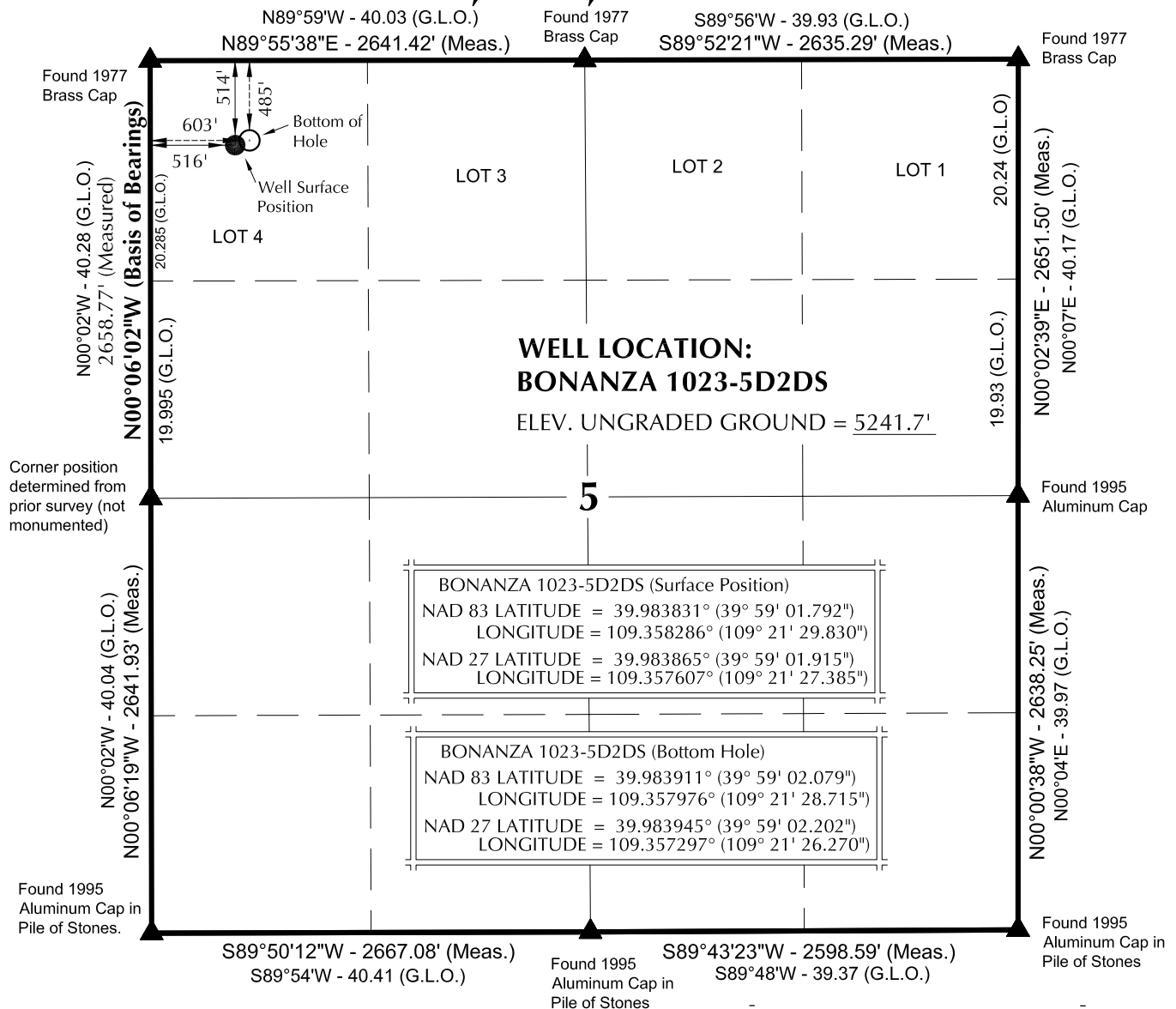


EXHIBIT A  
BONANZA 1023-5D2DS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



**T10S, R23E, S.L.B.&M.****NOTES:**

- ▲ = Section Corners Located
- Well footages are measured at right angles to the Section Lines.
  - G.L.O. distances are shown in feet or chains.  
1 chain = 66 feet.
  - The Bottom of hole bears N71°27'23"E 91.54' from the Surface Position.
  - Bearings are based on Global Positioning Satellite observations.
  - Basis of elevation is Tri-Sta "Two Water" located in the NW  $\frac{1}{4}$  of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

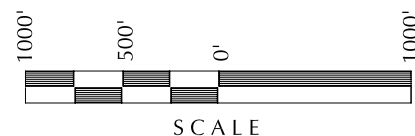
**WELL PAD - BONANZA 1023-5D**

**BONANZA 1023-5D2DS  
WELL PLAT**

**485' FNL, 603' FWL (Bottom Hole)  
LOT 4 OF SECTION 5, T10S, R23E,  
S.L.B.&M., UTAH COUNTY, UTAH.**



**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John R. Slough*  
No. 6028691  
JOHN R. SLOUGH  
PROFESSIONAL LAND SURVEYOR  
REGISTRATION NO. 6028691  
STATE OF UTAH

**TIMBERLINE**

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 03-08-10	SURVEYED BY: M.S.B.	SHEET NO:
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	<b>5</b>
SCALE: 1" = 1000'	Date Last Revised: 05-28-10 E.M.S.	5 OF 19

**RECEIVED: October 14, 2011**

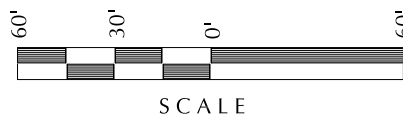
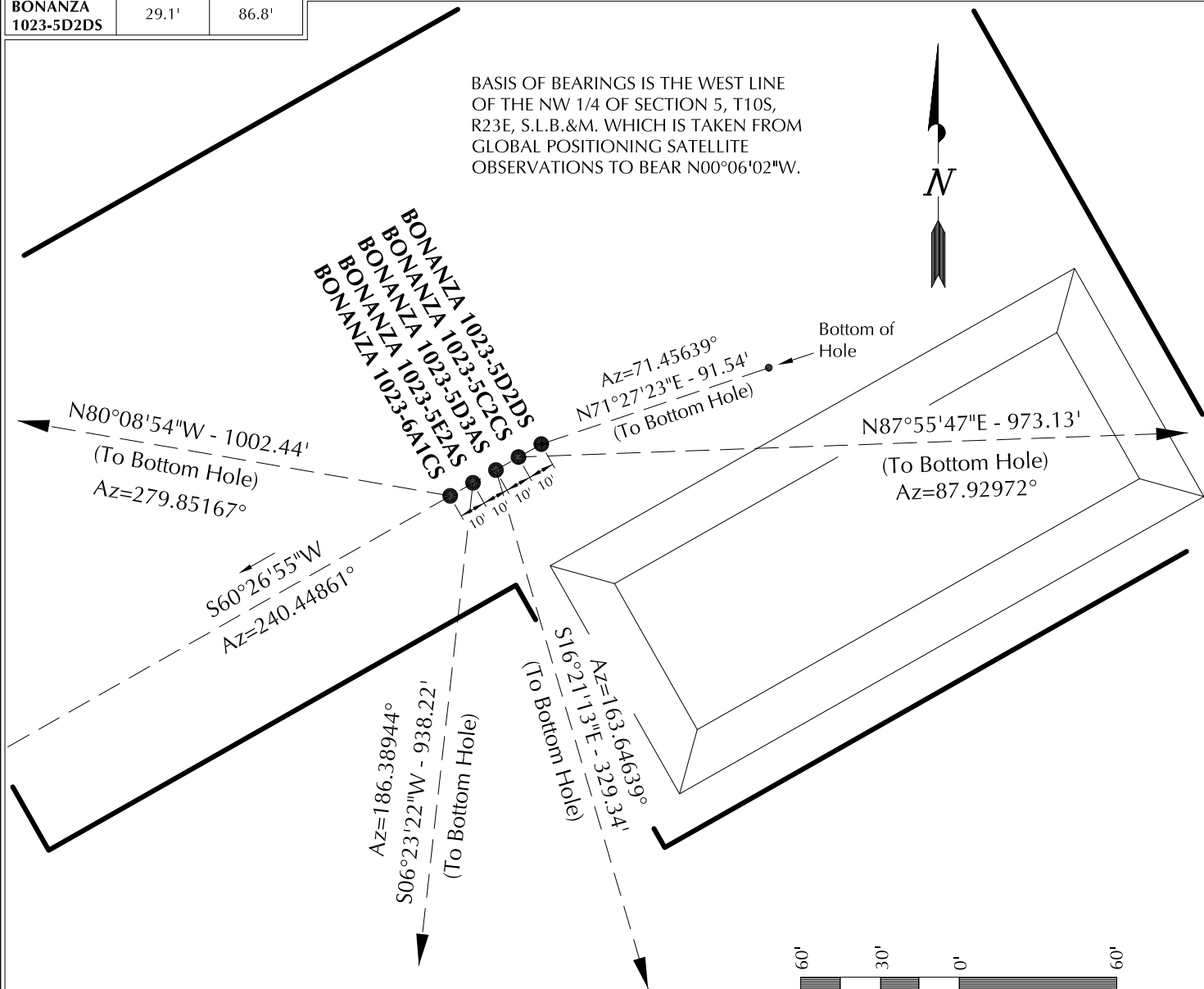


WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
BONANZA 1023-6A1CS	39°59'01.597"	109°21'30.277"	39°59'01.720"	109°21'27.832"	534' FNL	39°59'03.303"	109°21'42.959"	39°59'03.426"	109°21'40.513"	361' FNL
BONANZA 1023-5E2AS	39.983777°	109.358410°	39.983811°	109.357731°	481' FWL	39.984251°	109.361933°	39.984285°	109.361254°	506' FEL
BONANZA 1023-5D3AS	39°59'01.646"	109°21'30.166"	39°59'01.770"	109°21'27.720"	529' FNL	39°58'52.436"	109°21'31.521"	39°58'52.559"	109°21'29.075"	1461' FNL
BONANZA 1023-5D2DS	39.983791°	109.358379°	39.983825°	109.357700°	490' FWL	39.981232°	109.358756°	39.981266°	109.358076°	384' FWL
BONANZA 1023-5C2CS	39°59'01.695"	109°21'30.053"	39°59'01.818"	109°21'27.607"	524' FNL	39°58'58.571"	109°21'28.867"	39°58'58.694"	109°21'26.421"	840' FNL
BONANZA 1023-5D2DS	39.983804°	109.358348°	39.983838°	109.357669°	499' FWL	39.982936°	109.358019°	39.982971°	109.357339°	591' FWL
BONANZA 1023-5C2CS	39°59'01.743"	109°21'29.942"	39°59'01.867"	109°21'27.497"	519' FNL	39°59'02.079"	109°21'17.452"	39°59'02.202"	109°21'15.007"	485' FNL
BONANZA 1023-5D2DS	39.983818°	109.358317°	39.983852°	109.357638°	507' FWL	39.983911°	109.354848°	39.983945°	109.354168°	1480' FWL
BONANZA 1023-5D2DS	39°59'01.792"	109°21'29.830"	39°59'01.915"	109°21'27.385"	514' FNL	39°59'02.079"	109°21'28.715"	39°59'02.202"	109°21'26.270"	485' FNL
BONANZA 1023-5D2DS	39.983831°	109.358286°	39.983865°	109.357607°	516' FWL	39.983911°	109.357976°	39.983945°	109.357297°	603' FWL

## RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
BONANZA 1023-6A1CS	171.5'	-987.7'	BONANZA 1023-5E2AS	-932.4'	-104.4'	BONANZA 1023-5D3AS	-316.0'	92.7'	BONANZA 1023-5C2CS	35.2'	972.5'
BONANZA 1023-5D2DS	29.1'	86.8'									

BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 5, T10S, R23E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°06'02"W.



**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**WELL PAD INTERFERENCE PLAT**  
WELLS - BONANZA 1023-6A1CS,  
BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
BONANZA 1023-5C2CS & BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E,  
S.L.B.&M., UTAH COUNTY, UTAH.



**CONSULTING, LLC**  
371 Coffeen Avenue  
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**TIMBERLINE**

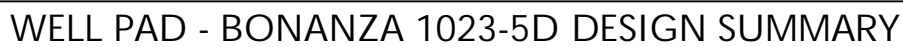
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ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

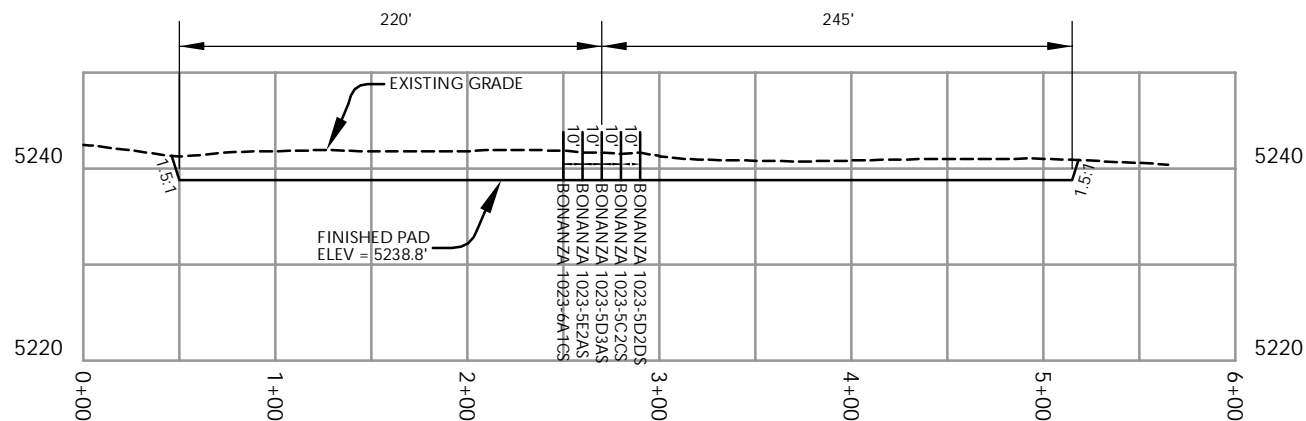
DATE SURVEYED: 03-08-10	SURVEYED BY: M.S.B.	SHEET NO: <b>6</b> 6 OF 17
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	
SCALE: 1" = 60'	Date Last Revised: 05-28-10 E.M.S.	

**RECEIVED: October 14, 2011**

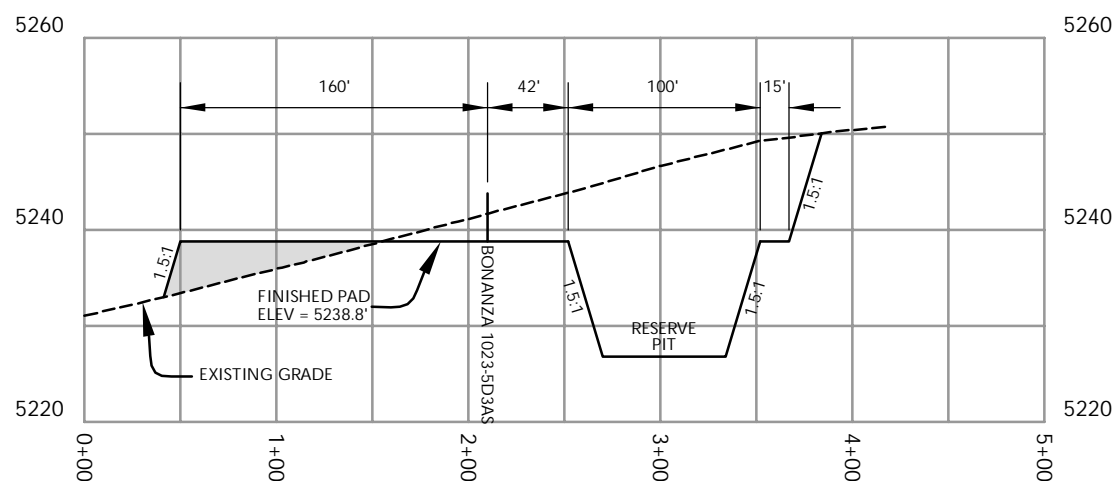








**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

NOTE: CROSS SECTION B-B' DEPICTS  
MAXIMUM RESERVE PIT DEPTH.

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

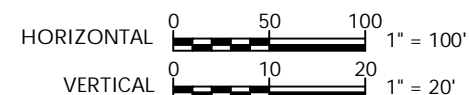
WELL PAD - CROSS SECTIONS  
BONANZA 1023-6A1CS,  
BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
BONANZA 1023-5C2CS & BONANZA 1023-5D2DS,  
LOCATED IN SECTION 5, T10S, R23E,  
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

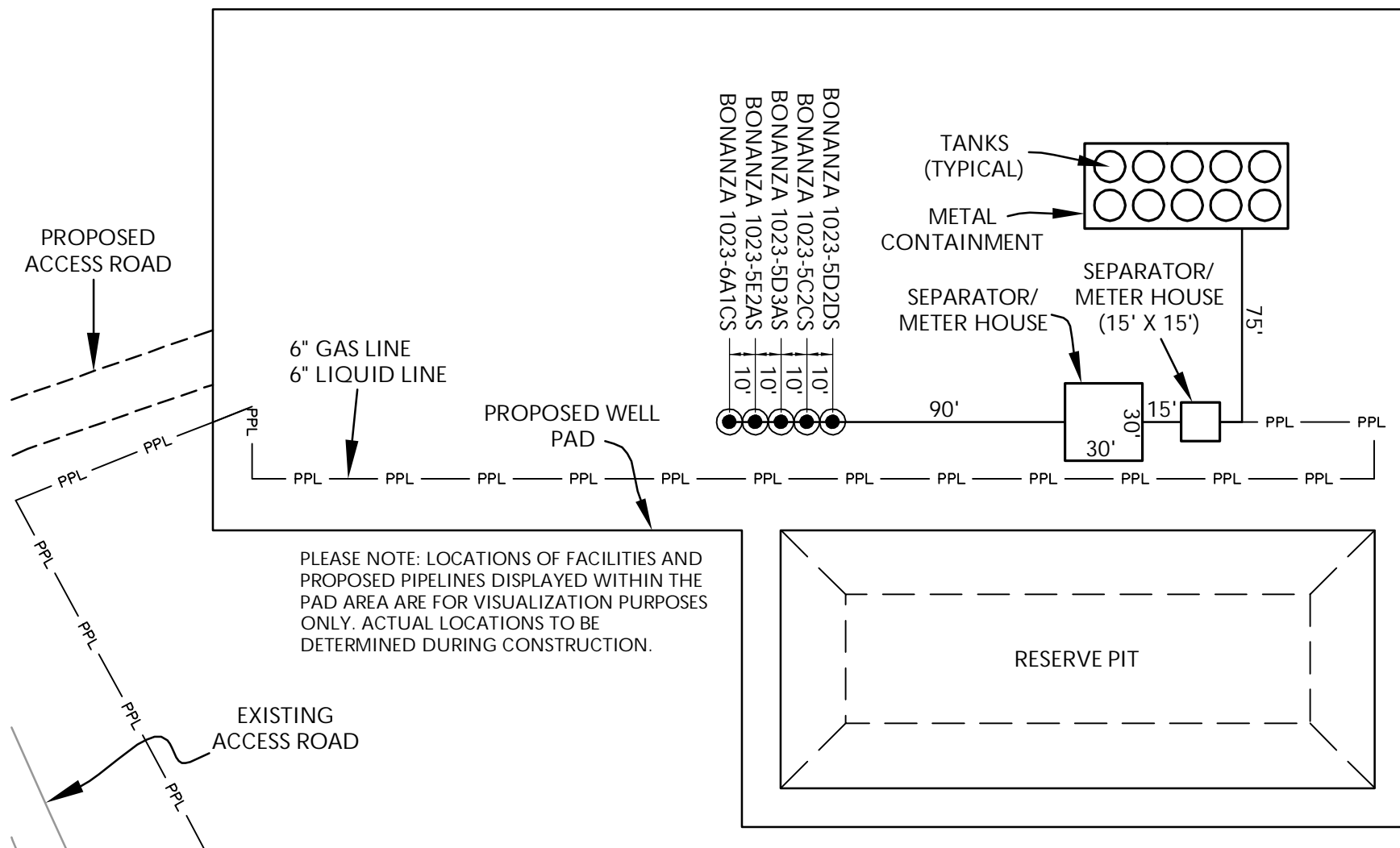


Scale: 1"=100'	Date: 3/30/10	SHEET NO: 8
REVISED:	SEA 6/25/10	8 OF 17

**RECEIVED: October 14, 2011**



K:\ANADARKO\2010\_11\_BON\_FOCUS\_SEC\_5-1023\DWGS\BONANZA 1023-5D\1023-5D 20100602.dwg, 7/29/2010 11:44:30 PM



**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**WELL PAD - FACILITIES DIAGRAM**  
 BONANZA 1023-6A1CS,  
 BONANZA 1023-5E2AS, BONANZA 1023-5D3AS,  
 BONANZA 1023-5C2CS & BONANZA 1023-5D2DS,  
 LOCATED IN SECTION 5, T10S, R23E,  
 S.L.B.&M., UINTEA COUNTY, UTAH



**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



**HORIZONTAL** 0 30' 60' 1" = 60'

**TIMBERLINE**  
**ENGINEERING & LAND SURVEYING, INC.**  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60'

Date: 3/30/10

SHEET NO:

REVISED:

SEA  
6/25/10

**9**

9 OF 17

**RECEIVED: October 14, 2011**



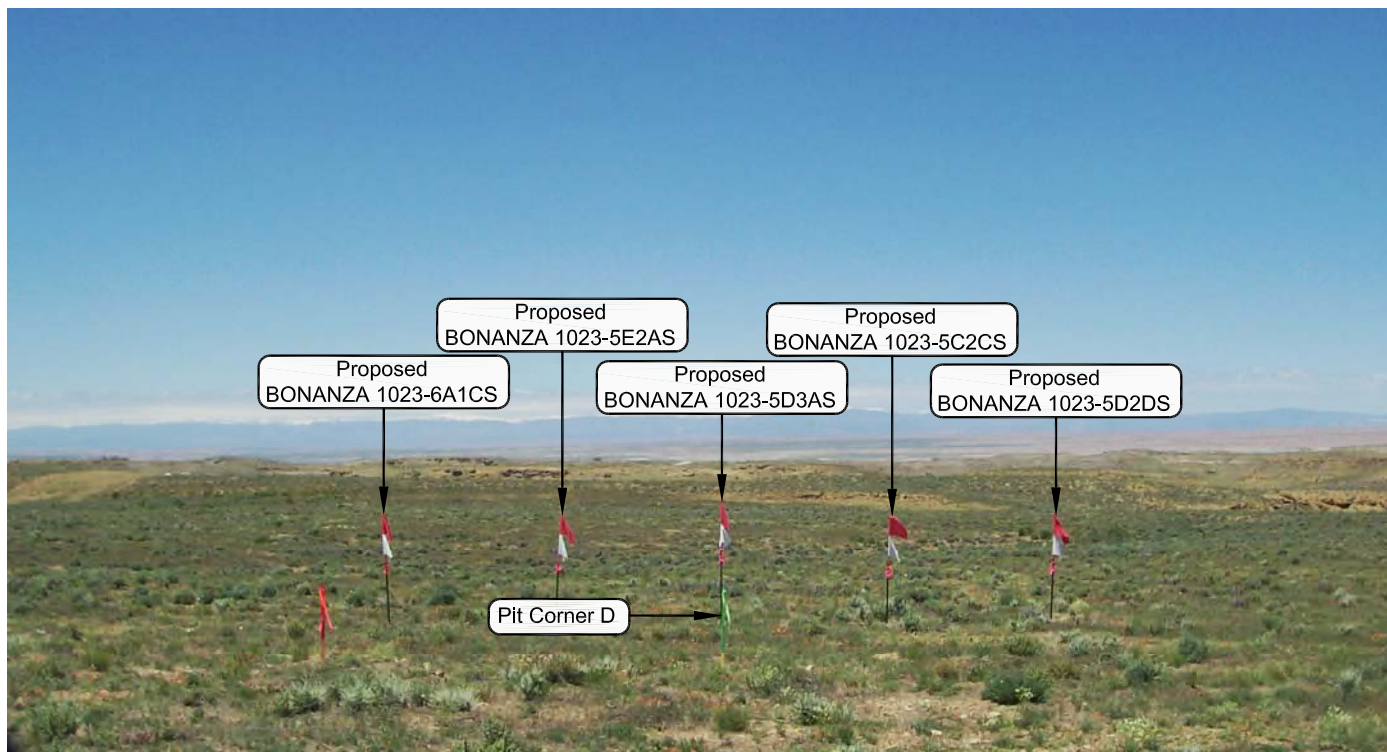


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street - Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**

**LOCATION PHOTOS**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS  
& BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E,  
S.L.B.&M., UINTAH COUNTY, UTAH.



**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan WY 82801  
Phone 307-674-0609  
Fax 307-674-0182

**TIMBERLINE**

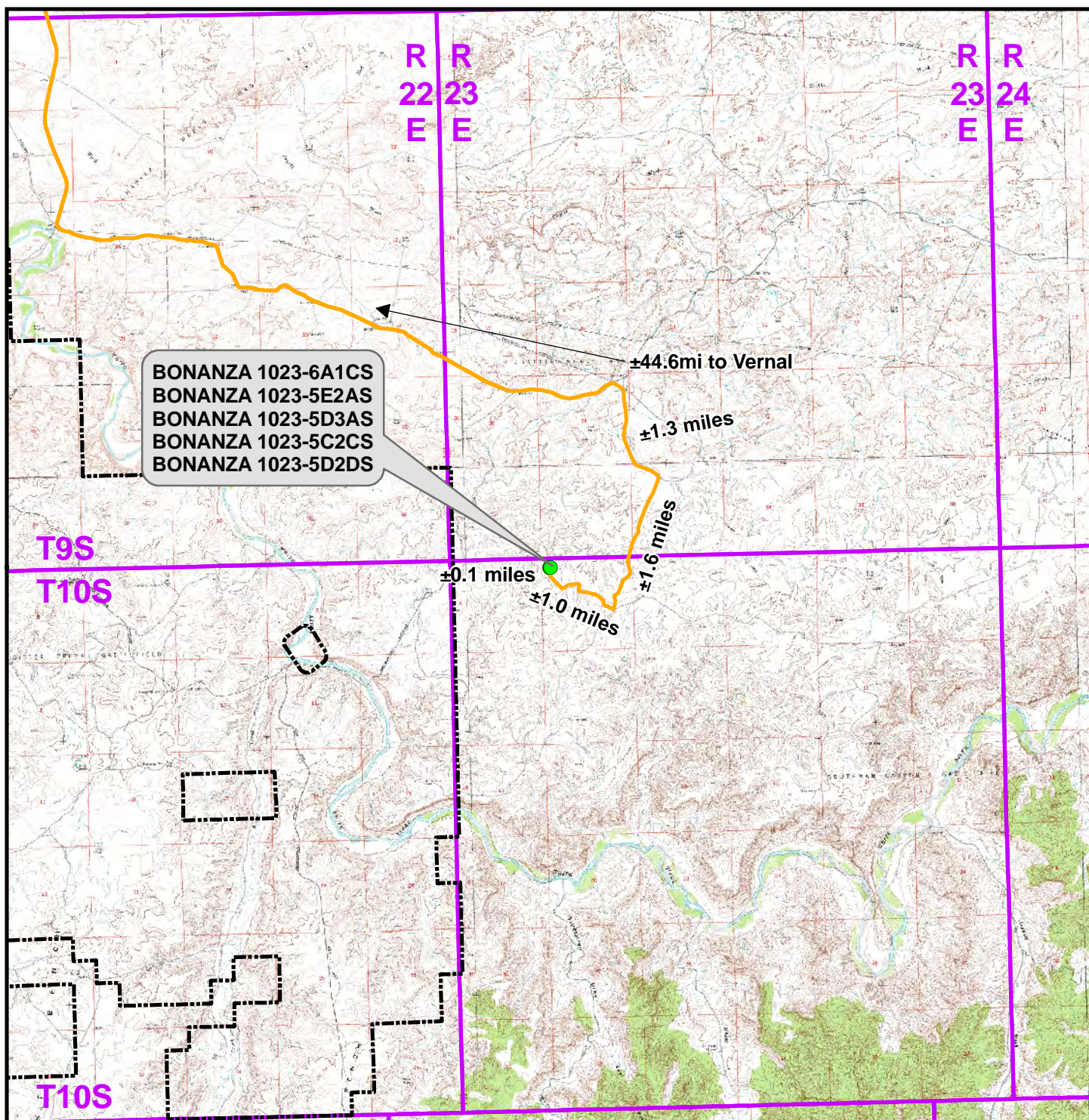
(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.  
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 03-08-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO:  <b>10</b>  10 OF 17
DATE DRAWN: 03-09-10	DRAWN BY: E.M.S.	
Date Last Revised: 05-28-10 E.M.S.		

**RECEIVED: October 14, 2011**





### Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - BONANZA 1023-5D To Unit Boundary: ±5,400ft

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

### WELL PAD - BONANZA 1023-5D

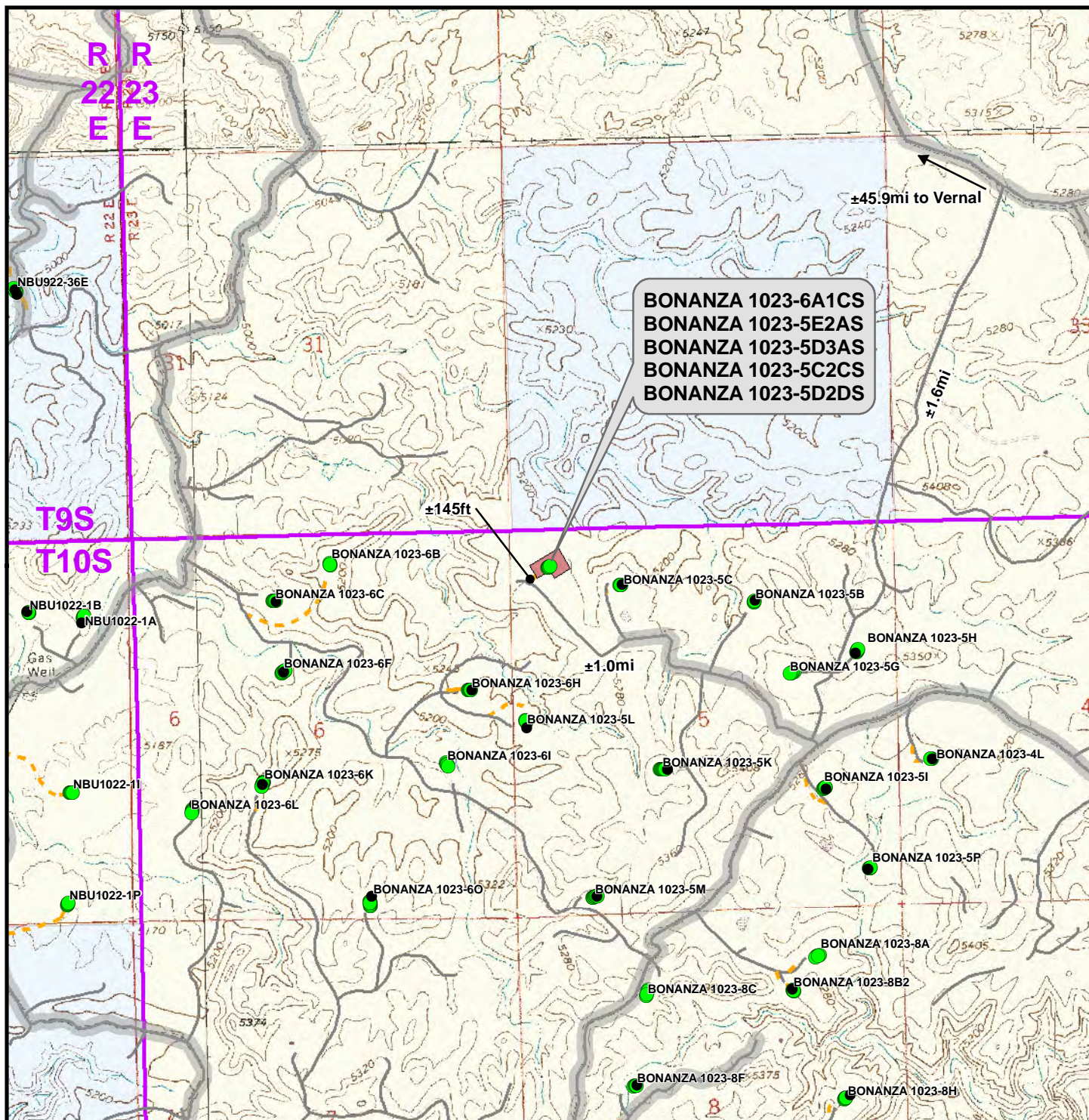
TOPO A  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>11</b>
Revised: TL	Date: 25 June 2010	11 of 17

**RECEIVED: October 14, 2011**





### Legend

- Well - Proposed     Well Pad    --- Road - Proposed     County Road     Bureau of Land Management     State  
● Well - Existing    --- Road - Existing     Indian Reservation     Private

Total Proposed Road Length: ±145ft

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

### WELL PAD - BONANZA 1023-5D

#### TOPO B

BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft

NAD83 USP Central

Sheet No:

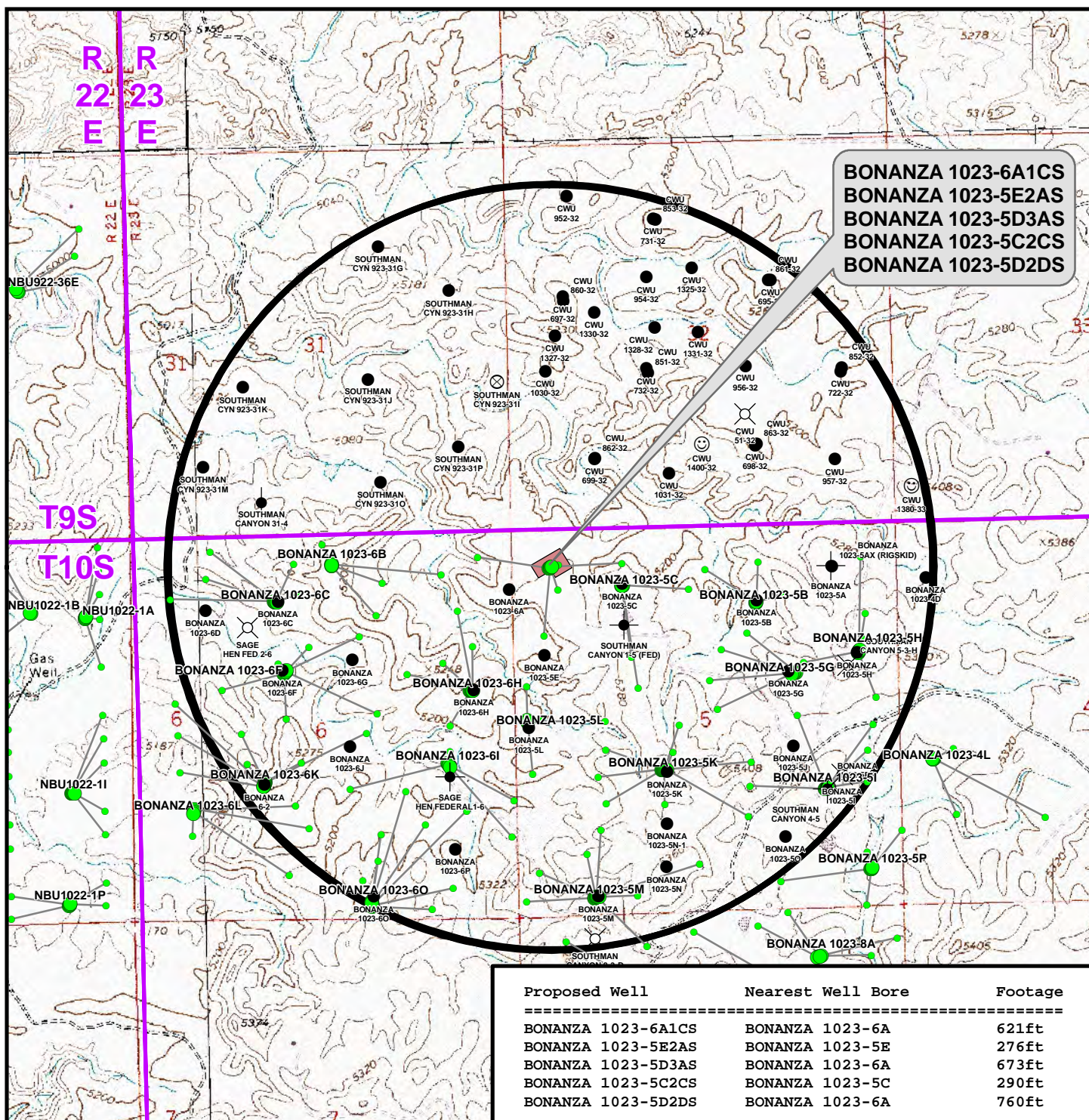
Drawn: CPS  
Revised: TL

Date: 29 Mar 2010  
Date: 25 June 2010

**12** 12 of 17

**RECEIVED: October 14, 2011**



**Legend**

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- ⊙ Active
- ⊙ Spudded (Drilling commenced; Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D****TOPO C**

**BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
 BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
 BONANZA 1023-5D2DS**  
**LOCATED IN SECTION 5, T10S, R23E**  
**S.L.B.&M., UTAH COUNTY, UTAH**

**609**  
**CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182

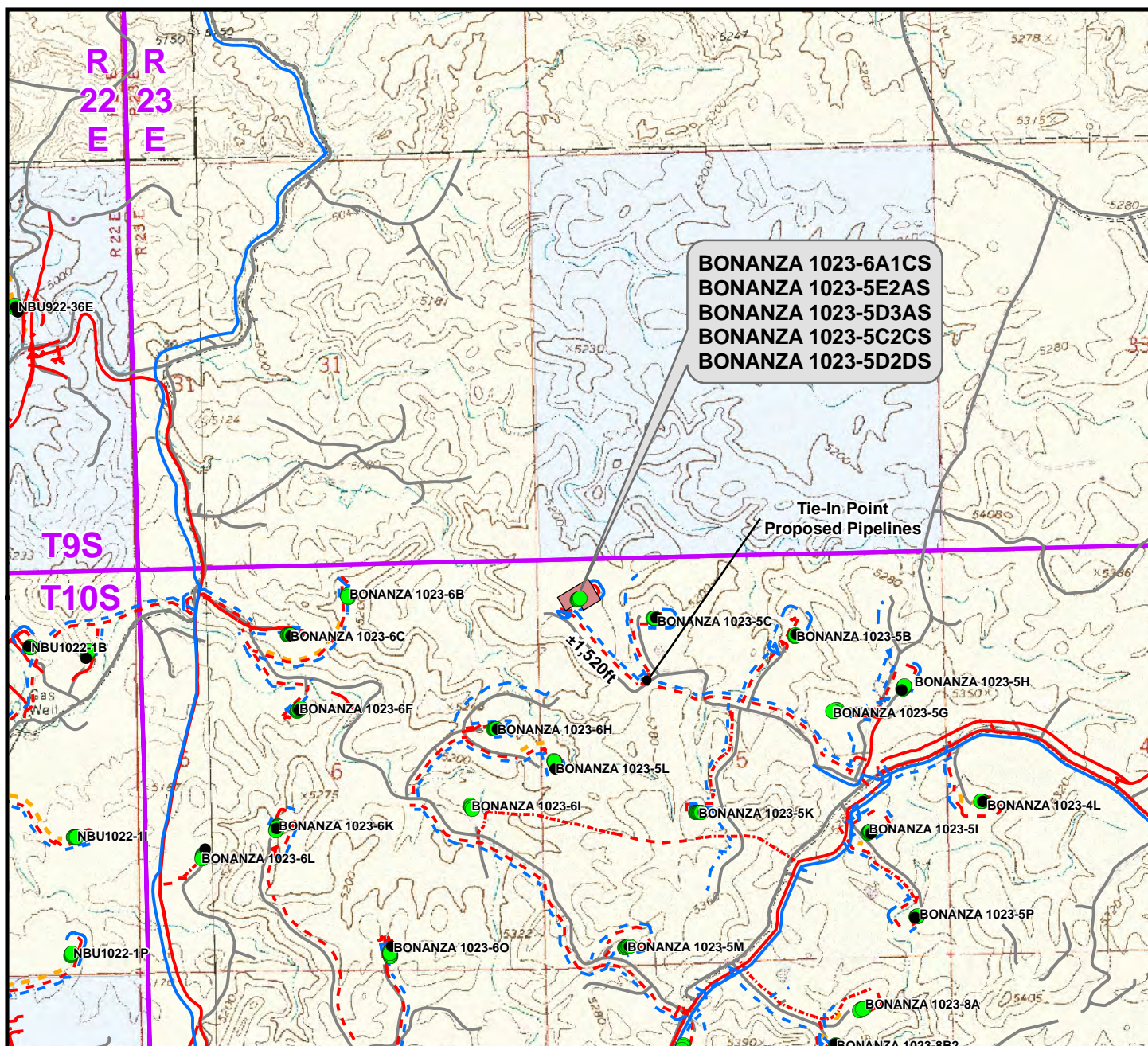


Scale: 1" = 2,000ft | NAD83 USP Central  
 Drawn: CPS | Date: 29 Mar 2010  
 Revised: TL | Date: 25 June 2010

Sheet No:

**13**  
 13 of 17





Proposed Liquid Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±570ft
Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>± 2,090ft</b>

Proposed Gas Pipeline	Length
Proposed 6" (First Meter House to Edge of Pad)	±570ft
Proposed 6" (Edge of Pad to 5C Intersection)	±1,520ft
<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±2,090ft</b>

### Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	■ Bureau of Land Management
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - - Road - Existing	■ Indian Reservation
■ Well Pad	- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing		■ State
				■ Private

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

### WELL PAD - BONANZA 1023-5D

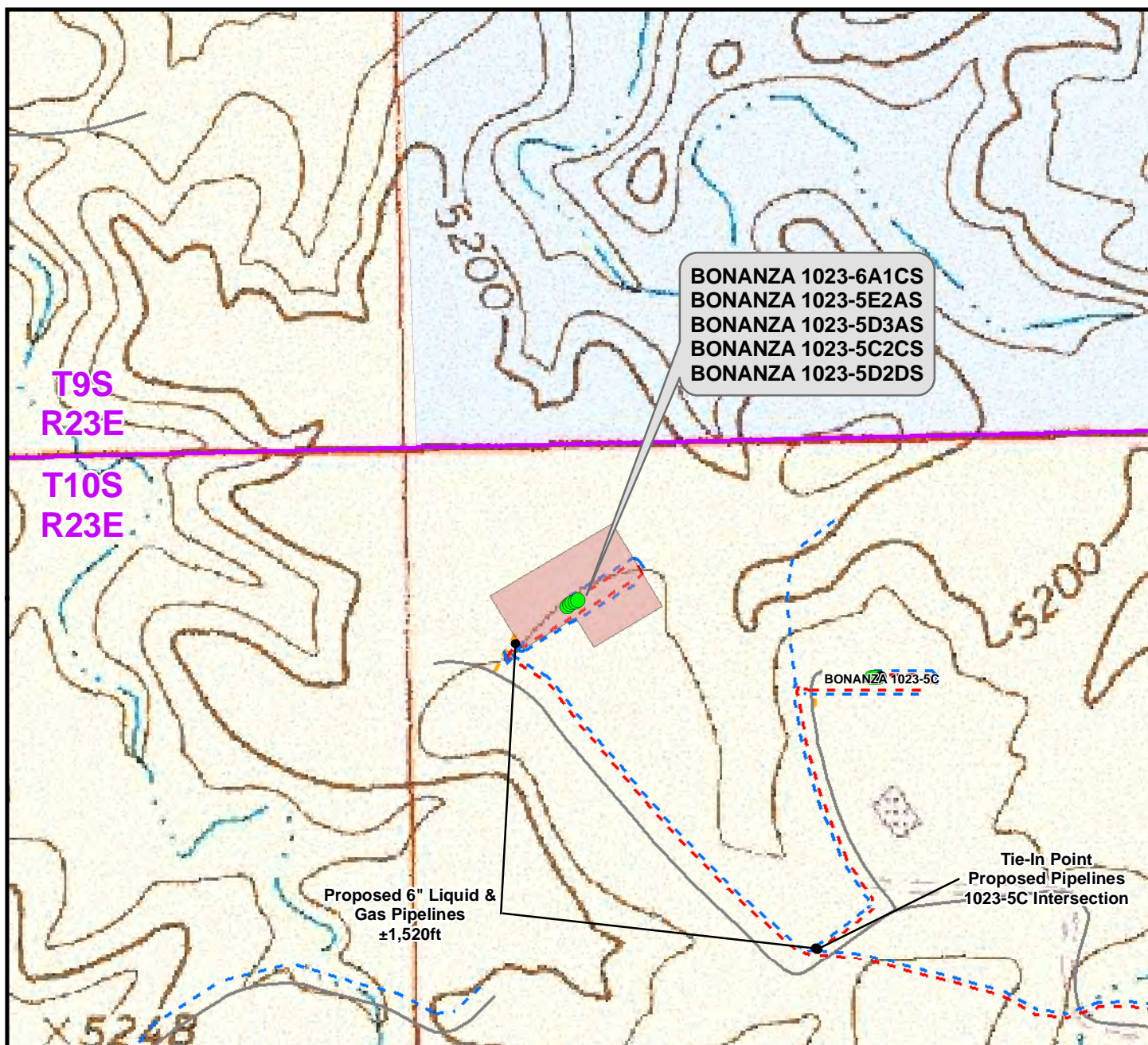
**TOPO D**  
**BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,**  
**BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &**  
**BONANZA 1023-5D2DS**  
**LOCATED IN SECTION 5, T10S, R23E**  
**S.L.B.&M., UTAH COUNTY, UTAH**

**609**  
**CONSULTING, LLC**  
371 Coffeen Avenue  
Sheridan, WY 82801  
Phone (307) 674-0609  
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>14</b>
Revised: TL	Date: 25 June 2010	14 of 17





Proposed Liquid Pipeline		Length	Proposed Gas Pipeline		Length
Proposed 6" (First Meter House to Edge of Pad)		±570ft	Proposed 6" (First Meter House to Edge of Pad)		±570ft
Proposed 6" (Edge of Pad to 5C Intersection)		±1,520ft	Proposed 6" (Edge of Pad to 5C Intersection)		±1,520ft
TOTAL PROPOSED LIQUID PIPELINE =		± 2,090ft	TOTAL PROPOSED GAS PIPELINE =		±2,090ft

**Legend**

- Well - Proposed (Green dot)
- Well - Existing (Black dot)
- Well Pad (Red shaded area)
- Gas Pipeline - Proposed (Red dashed line)
- Gas Pipeline - To Be Upgraded (Red dotted line)
- Gas Pipeline - Existing (Red solid line)
- Liquid Pipeline - Proposed (Blue dashed line)
- Liquid Pipeline - To Be Upgraded (Blue dotted line)
- Liquid Pipeline - Existing (Blue solid line)
- Road - Proposed (Orange dashed line)
- Road - Existing (Grey solid line)
- Bureau of Land Management (Yellow shaded area)
- Indian Reservation (Pink shaded area)
- State (Light blue shaded area)
- Private (White shaded area)

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street, Denver, Colorado 80202

**WELL PAD - BONANZA 1023-5D**  
 TOPO D (PAD & PIPELINE DETAIL)  
 BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
 BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
 BONANZA 1023-5D2DS  
 LOCATED IN SECTION 5, T10S, R23E  
 S.L.B.&M., UTAH COUNTY, UTAH

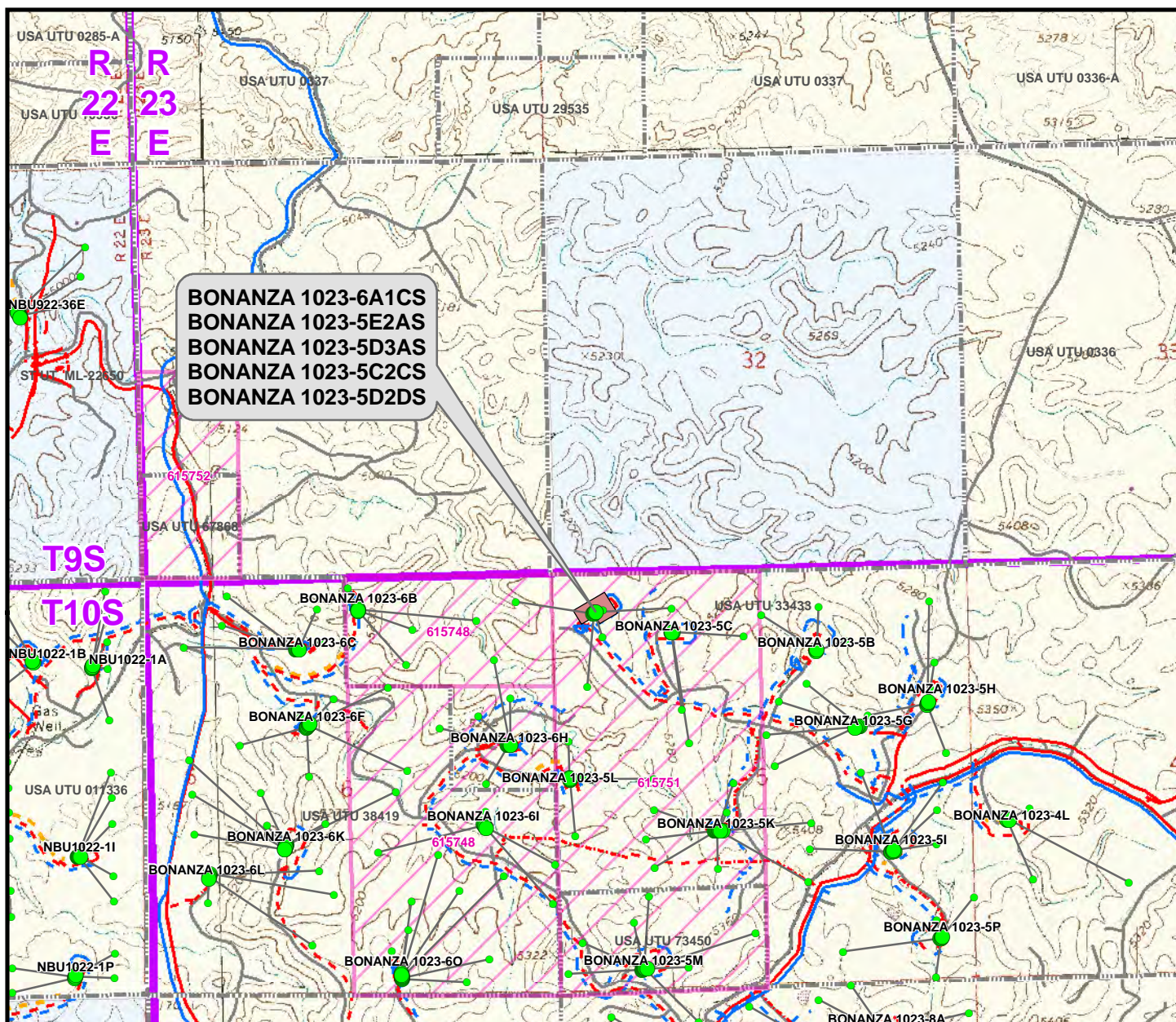
**609 CONSULTING, LLC**  
 371 Coffeen Avenue  
 Sheridan, WY 82801  
 Phone (307) 674-0609  
 Fax (307) 674-0182

**Scale:** 1" = 500ft  
**Drawn:** CPS  
**Revised:** TL

**NAD83 USP Central**  
**Date:** 29 Mar 2010  
**Date:** 25 June 2010

**Sheet No:**  
**15**  
 15 of 17





Proposed Well	Distance to Nearest CA Boundary
BONANZA 1023-6A1CS	361ft
BONANZA 1023-5E2AS	384ft
BONANZA 1023-5D3AS	591ft
BONANZA 1023-5C2CS	485ft
BONANZA 1023-5D2DS	485ft

Proposed Well	Distance To Nearest Lease Boundary
BONANZA 1023-6A1CS	621ft
BONANZA 1023-5E2AS	1,257ft
BONANZA 1023-5D3AS	840ft
BONANZA 1023-5C2CS	485ft
BONANZA 1023-5D2DS	485ft

#### Legend

Well - Proposed	Well Pad	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Road - Proposed	Bureau of Land Management
Bottom Hole - Proposed	CA Agreement	Gas Pipeline - To Be Upgraded	Liquid Pipeline - To Be Upgraded	Road - Existing	Indian Reservation
Well Path	Lease Boundary	Gas Pipeline - Existing	Liquid Pipeline - Existing		State
					Private

**Kerr-McGee Oil & Gas Onshore, LP**  
1099 18th Street, Denver, Colorado 80202

#### WELL PAD - BONANZA 1023-5D

**TOPO E**  
BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
LOCATED IN SECTION 5, T10S, R23E  
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: CPS	Date: 29 Mar 2010	<b>16</b>
Revised: TL	Date: 25 June 2010	16 of 17

**RECEIVED: October 14, 2011**



**Kerr-McGee Oil & Gas Onshore, LP  
WELL PAD – BONANZA 1023-5D  
WELLS – BONANZA 1023-6A1CS, BONANZA 1023-5E2AS,  
BONANZA 1023-5D3AS, BONANZA 1023-5C2CS &  
BONANZA 1023-5D2DS  
Section 5, T10S, R23E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Chipeta Wells Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge, at the White River. Exit left and proceed in a southeasterly direction along the Chipeta Wells Road approximately 6.7 miles to a Class D County Road to the right. Exit right and proceed in a southeasterly then southerly direction along the Class D Road approximately 1.3 miles to a second Class D County Road to the right. Exit right and proceed in a southwesterly direction along second Class D Road approximately 1.6 miles to a third Class D County Road to the right. Exit right and proceed in a northwesterly direction along third Class D Road approximately 1.0 miles to a proposed access road to the right. Exit right and follow the road flags in a northeasterly direction approximately 145 feet to the proposed well pad.

Total distance from Vernal, Utah to the proposed well location is approximately 48.5 miles in a southerly direction.



API Well Number: 43047520930000



**Scientific Drilling**  
Rocky Mountain Operations

Project: Uintah County, UT UTM12  
Site: Bonanza 1023-5D Pad  
Well: Bonanza 1023-5D2DS  
Wellbore: OH  
Design: PLAN #1



Kerr McGee Oil and Gas Onshore LP

## WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8564.00	29.14	86.8614524437.70	2100588.13	39° 59' 2.202 N	109° 21' 26.269 W	Circle (Radius: 25.00)	



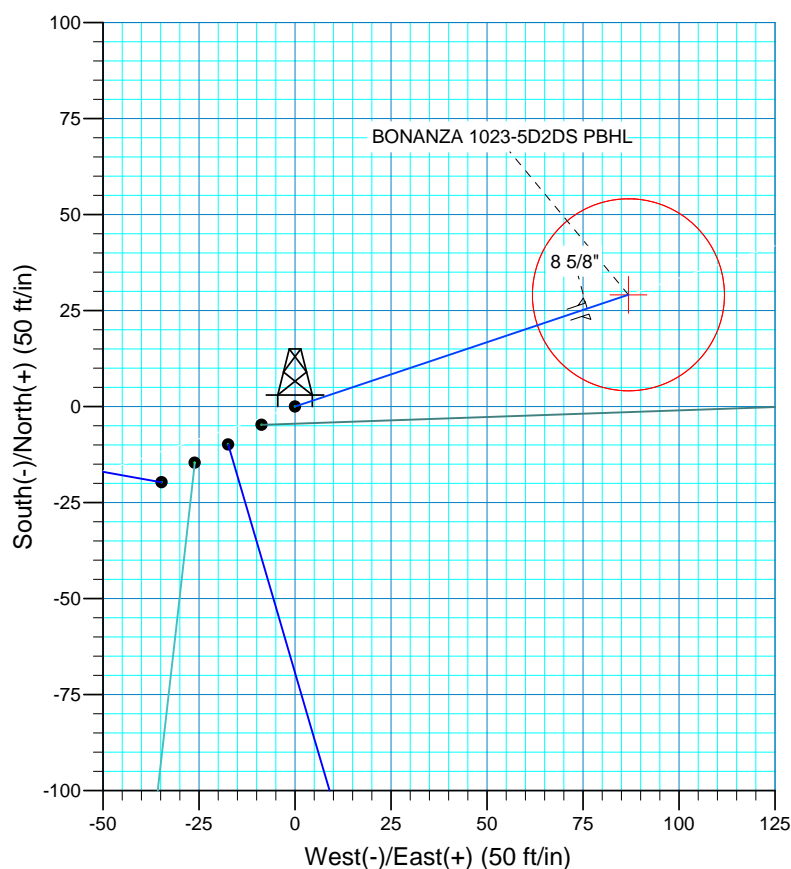
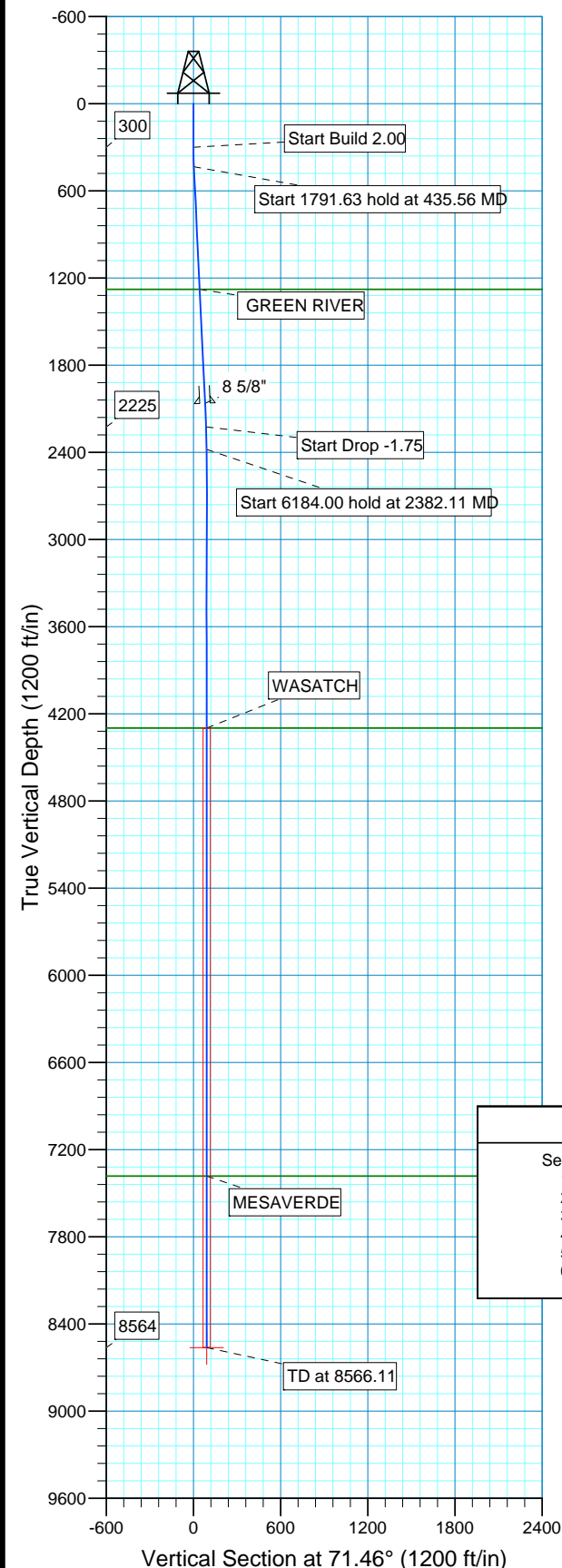
Azimuths to True North  
Magnetic North: 11.13°

Magnetic Field  
Strength: 52427.4snT  
Dip Angle: 65.90°  
Date: 07/22/2010  
Model: IGRF2010

## WELL DETAILS:

Bonanza 1023-5D2DS

		GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)		5239.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14524406.97	2100501.82	39° 59' 1.914 N	109° 21' 27.385 W



## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	435.56	2.71	71.46	435.51	1.02	3.04	2.00	71.46	3.21	
4	2227.19	2.71	71.46	2225.14	27.97	83.39	0.00	0.00	87.95	
5	2382.11	0.00	0.00	2380.00	29.14	86.86	1.75	180.00	91.62	
6	8566.11	0.00	0.00	8564.00	29.14	86.86	0.00	0.00	91.62	BONANZA 1023-5D2DS PBHL

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1278.00	1278.99	GREEN RIVER
4299.00	4301.11	WASATCH
7383.00	7385.11	MESAVERDE

## PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)  
Datum: NAD 1927 - Western US  
Ellipsoid: Clarke 1866  
Zone: Zone 12N (114 W to 108 W)  
Location: SEC 5 T10S R23W  
System Datum: Mean Sea Level  
Local North: True

Plan: PLAN #1 (Bonanza 1023-5D2DS/OH)

Created By: Robert H. Scott Date: 9:44, July 22 2010





# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12  
Bonanza 1023-5D Pad  
Bonanza 1023-5D2DS  
OH**

**Plan: PLAN #1**

## **Standard Planning Report**

**22 July, 2010**







# SDI Planning Report



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

Site	Bonanza 1023-5D Pad, SEC 5 T10S R23W				
Site Position:		Northing:	14,524,406.97 ft	Latitude:	39° 59' 1.914 N
From:	Lat/Long	Easting:	2,100,501.82 ft	Longitude:	109° 21' 27.385 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.06 °

Well	Bonanza 1023-5D2DS, 514' FNL 516' FWL					
Well Position	+N-S	0.00 ft	Northing:	14,524,406.97 ft	Latitude:	39° 59' 1.914 N
	+E-W	0.00 ft	Easting:	2,100,501.82 ft	Longitude:	109° 21' 27.385 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,239.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	07/22/2010	11.13	65.91	52,427

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	71.46

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
435.56	2.71	71.46	435.51	1.02	3.04	2.00	2.00	0.00	71.46	
2,227.19	2.71	71.46	2,225.14	27.97	83.39	0.00	0.00	0.00	0.00	
2,382.11	0.00	0.00	2,380.00	29.14	86.86	1.75	-1.75	0.00	180.00	
8,566.11	0.00	0.00	8,564.00	29.14	86.86	0.00	0.00	0.00	0.00	BONANZA 1023-5D





<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
400.00	2.00	71.46	399.98	0.56	1.65	1.75	2.00	2.00	0.00
435.56	2.71	71.46	435.51	1.02	3.04	3.21	2.00	2.00	0.00
<b>Start 1791.63 hold at 435.56 MD</b>									
500.00	2.71	71.46	499.88	1.99	5.93	6.25	0.00	0.00	0.00
600.00	2.71	71.46	599.77	3.49	10.41	10.98	0.00	0.00	0.00
700.00	2.71	71.46	699.65	5.00	14.90	15.71	0.00	0.00	0.00
800.00	2.71	71.46	799.54	6.50	19.38	20.44	0.00	0.00	0.00
900.00	2.71	71.46	899.43	8.01	23.87	25.18	0.00	0.00	0.00
1,000.00	2.71	71.46	999.32	9.51	28.35	29.91	0.00	0.00	0.00
1,100.00	2.71	71.46	1,099.21	11.02	32.84	34.64	0.00	0.00	0.00
1,200.00	2.71	71.46	1,199.09	12.52	37.32	39.37	0.00	0.00	0.00
1,278.99	2.71	71.46	1,278.00	13.71	40.86	43.10	0.00	0.00	0.00
<b>GREEN RIVER</b>									
1,300.00	2.71	71.46	1,298.98	14.02	41.81	44.10	0.00	0.00	0.00
1,400.00	2.71	71.46	1,398.87	15.53	46.29	48.83	0.00	0.00	0.00
1,500.00	2.71	71.46	1,498.76	17.03	50.77	53.56	0.00	0.00	0.00
1,600.00	2.71	71.46	1,598.65	18.54	55.26	58.29	0.00	0.00	0.00
1,700.00	2.71	71.46	1,698.53	20.04	59.74	63.02	0.00	0.00	0.00
1,800.00	2.71	71.46	1,798.42	21.55	64.23	67.75	0.00	0.00	0.00
1,900.00	2.71	71.46	1,898.31	23.05	68.71	72.48	0.00	0.00	0.00
2,000.00	2.71	71.46	1,998.20	24.55	73.20	77.21	0.00	0.00	0.00
2,064.87	2.71	71.46	2,063.00	25.53	76.11	80.27	0.00	0.00	0.00
<b>8 5/8"</b>									
2,100.00	2.71	71.46	2,098.09	26.06	77.68	81.94	0.00	0.00	0.00
2,200.00	2.71	71.46	2,197.97	27.56	82.17	86.67	0.00	0.00	0.00
2,227.19	2.71	71.46	2,225.14	27.97	83.39	87.95	0.00	0.00	0.00
<b>Start Drop -1.75</b>									
2,300.00	1.44	71.46	2,297.89	28.81	85.88	90.59	1.75	-1.75	0.00
2,382.11	0.00	0.00	2,380.00	29.14	86.86	91.62	1.75	-1.75	0.00
<b>Start 6184.00 hold at 2382.11 MD</b>									
2,400.00	0.00	0.00	2,397.89	29.14	86.86	91.62	0.00	0.00	0.00
2,500.00	0.00	0.00	2,497.89	29.14	86.86	91.62	0.00	0.00	0.00
2,600.00	0.00	0.00	2,597.89	29.14	86.86	91.62	0.00	0.00	0.00
2,700.00	0.00	0.00	2,697.89	29.14	86.86	91.62	0.00	0.00	0.00
2,800.00	0.00	0.00	2,797.89	29.14	86.86	91.62	0.00	0.00	0.00
2,900.00	0.00	0.00	2,897.89	29.14	86.86	91.62	0.00	0.00	0.00
3,000.00	0.00	0.00	2,997.89	29.14	86.86	91.62	0.00	0.00	0.00
3,100.00	0.00	0.00	3,097.89	29.14	86.86	91.62	0.00	0.00	0.00
3,200.00	0.00	0.00	3,197.89	29.14	86.86	91.62	0.00	0.00	0.00
3,300.00	0.00	0.00	3,297.89	29.14	86.86	91.62	0.00	0.00	0.00
3,400.00	0.00	0.00	3,397.89	29.14	86.86	91.62	0.00	0.00	0.00
3,500.00	0.00	0.00	3,497.89	29.14	86.86	91.62	0.00	0.00	0.00
3,600.00	0.00	0.00	3,597.89	29.14	86.86	91.62	0.00	0.00	0.00
3,700.00	0.00	0.00	3,697.89	29.14	86.86	91.62	0.00	0.00	0.00
3,800.00	0.00	0.00	3,797.89	29.14	86.86	91.62	0.00	0.00	0.00
3,900.00	0.00	0.00	3,897.89	29.14	86.86	91.62	0.00	0.00	0.00
4,000.00	0.00	0.00	3,997.89	29.14	86.86	91.62	0.00	0.00	0.00
4,100.00	0.00	0.00	4,097.89	29.14	86.86	91.62	0.00	0.00	0.00





<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	0.00	0.00	4,197.89	29.14	86.86	91.62	0.00	0.00	0.00
4,300.00	0.00	0.00	4,297.89	29.14	86.86	91.62	0.00	0.00	0.00
4,301.11	0.00	0.00	4,299.00	29.14	86.86	91.62	0.00	0.00	0.00
<b>WASATCH</b>									
4,400.00	0.00	0.00	4,397.89	29.14	86.86	91.62	0.00	0.00	0.00
4,500.00	0.00	0.00	4,497.89	29.14	86.86	91.62	0.00	0.00	0.00
4,600.00	0.00	0.00	4,597.89	29.14	86.86	91.62	0.00	0.00	0.00
4,700.00	0.00	0.00	4,697.89	29.14	86.86	91.62	0.00	0.00	0.00
4,800.00	0.00	0.00	4,797.89	29.14	86.86	91.62	0.00	0.00	0.00
4,900.00	0.00	0.00	4,897.89	29.14	86.86	91.62	0.00	0.00	0.00
5,000.00	0.00	0.00	4,997.89	29.14	86.86	91.62	0.00	0.00	0.00
5,100.00	0.00	0.00	5,097.89	29.14	86.86	91.62	0.00	0.00	0.00
5,200.00	0.00	0.00	5,197.89	29.14	86.86	91.62	0.00	0.00	0.00
5,300.00	0.00	0.00	5,297.89	29.14	86.86	91.62	0.00	0.00	0.00
5,400.00	0.00	0.00	5,397.89	29.14	86.86	91.62	0.00	0.00	0.00
5,500.00	0.00	0.00	5,497.89	29.14	86.86	91.62	0.00	0.00	0.00
5,600.00	0.00	0.00	5,597.89	29.14	86.86	91.62	0.00	0.00	0.00
5,700.00	0.00	0.00	5,697.89	29.14	86.86	91.62	0.00	0.00	0.00
5,800.00	0.00	0.00	5,797.89	29.14	86.86	91.62	0.00	0.00	0.00
5,900.00	0.00	0.00	5,897.89	29.14	86.86	91.62	0.00	0.00	0.00
6,000.00	0.00	0.00	5,997.89	29.14	86.86	91.62	0.00	0.00	0.00
6,100.00	0.00	0.00	6,097.89	29.14	86.86	91.62	0.00	0.00	0.00
6,200.00	0.00	0.00	6,197.89	29.14	86.86	91.62	0.00	0.00	0.00
6,300.00	0.00	0.00	6,297.89	29.14	86.86	91.62	0.00	0.00	0.00
6,400.00	0.00	0.00	6,397.89	29.14	86.86	91.62	0.00	0.00	0.00
6,500.00	0.00	0.00	6,497.89	29.14	86.86	91.62	0.00	0.00	0.00
6,600.00	0.00	0.00	6,597.89	29.14	86.86	91.62	0.00	0.00	0.00
6,700.00	0.00	0.00	6,697.89	29.14	86.86	91.62	0.00	0.00	0.00
6,800.00	0.00	0.00	6,797.89	29.14	86.86	91.62	0.00	0.00	0.00
6,900.00	0.00	0.00	6,897.89	29.14	86.86	91.62	0.00	0.00	0.00
7,000.00	0.00	0.00	6,997.89	29.14	86.86	91.62	0.00	0.00	0.00
7,100.00	0.00	0.00	7,097.89	29.14	86.86	91.62	0.00	0.00	0.00
7,200.00	0.00	0.00	7,197.89	29.14	86.86	91.62	0.00	0.00	0.00
7,300.00	0.00	0.00	7,297.89	29.14	86.86	91.62	0.00	0.00	0.00
7,385.11	0.00	0.00	7,383.00	29.14	86.86	91.62	0.00	0.00	0.00
<b>MESAVERDE</b>									
7,400.00	0.00	0.00	7,397.89	29.14	86.86	91.62	0.00	0.00	0.00
7,500.00	0.00	0.00	7,497.89	29.14	86.86	91.62	0.00	0.00	0.00
7,600.00	0.00	0.00	7,597.89	29.14	86.86	91.62	0.00	0.00	0.00
7,700.00	0.00	0.00	7,697.89	29.14	86.86	91.62	0.00	0.00	0.00
7,800.00	0.00	0.00	7,797.89	29.14	86.86	91.62	0.00	0.00	0.00
7,900.00	0.00	0.00	7,897.89	29.14	86.86	91.62	0.00	0.00	0.00
8,000.00	0.00	0.00	7,997.89	29.14	86.86	91.62	0.00	0.00	0.00
8,100.00	0.00	0.00	8,097.89	29.14	86.86	91.62	0.00	0.00	0.00
8,200.00	0.00	0.00	8,197.89	29.14	86.86	91.62	0.00	0.00	0.00
8,300.00	0.00	0.00	8,297.89	29.14	86.86	91.62	0.00	0.00	0.00
8,400.00	0.00	0.00	8,397.89	29.14	86.86	91.62	0.00	0.00	0.00
8,500.00	0.00	0.00	8,497.89	29.14	86.86	91.62	0.00	0.00	0.00
8,566.11	0.00	0.00	8,564.00	29.14	86.86	91.62	0.00	0.00	0.00
<b>BONANZA 1023-5D2DS PBHL</b>									





# **Kerr McGee Oil and Gas Onshore LP**

**Uintah County, UT UTM12  
Bonanza 1023-5D Pad  
Bonanza 1023-5D2DS  
OH**

**Plan: PLAN #1**

## **Standard Planning Report - Geographic**

**22 July, 2010**







# SDI

## Planning Report - Geographic



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Uintah County, UT UTM12		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Fee	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

<b>Site</b>	Bonanza 1023-5D Pad, SEC 5 T10S R23W			
<b>Site Position:</b>		<b>Northing:</b>	14,524,406.97 ft	<b>Latitude:</b> 39° 59' 1.914 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,100,501.82 ft	<b>Longitude:</b> 109° 21' 27.385 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	in	<b>Grid Convergence:</b> 1.06 °

<b>Well</b>	Bonanza 1023-5D2DS, 514' FNL 516' FWL			
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	14,524,406.97 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,100,501.82 ft
<b>Position Uncertainty</b>	0.00 ft		<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	5,239.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	07/22/2010	11.13	65.91	52,427

<b>Design</b>	PLAN #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	71.46	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
435.56	2.71	71.46	435.51	1.02	3.04	2.00	2.00	0.00	71.46	
2,227.19	2.71	71.46	2,225.14	27.97	83.39	0.00	0.00	0.00	0.00	
2,382.11	0.00	0.00	2,380.00	29.14	86.86	1.75	-1.75	0.00	180.00	
8,566.11	0.00	0.00	8,564.00	29.14	86.86	0.00	0.00	0.00	0.00	BONANZA 1023-5D





<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,524,406.97	2,100,501.82	39° 59' 1.914 N	109° 21' 27.385 W
100.00	0.00	0.00	100.00	0.00	0.00	14,524,406.97	2,100,501.82	39° 59' 1.914 N	109° 21' 27.385 W
200.00	0.00	0.00	200.00	0.00	0.00	14,524,406.97	2,100,501.82	39° 59' 1.914 N	109° 21' 27.385 W
300.00	0.00	0.00	300.00	0.00	0.00	14,524,406.97	2,100,501.82	39° 59' 1.914 N	109° 21' 27.385 W
<b>Start Build 2.00</b>									
400.00	2.00	71.46	399.98	0.56	1.65	14,524,407.56	2,100,503.46	39° 59' 1.919 N	109° 21' 27.364 W
435.56	2.71	71.46	435.51	1.02	3.04	14,524,408.05	2,100,504.84	39° 59' 1.924 N	109° 21' 27.346 W
<b>Start 1791.63 hold at 435.56 MD</b>									
500.00	2.71	71.46	499.88	1.99	5.93	14,524,409.07	2,100,507.71	39° 59' 1.934 N	109° 21' 27.309 W
600.00	2.71	71.46	599.77	3.49	10.41	14,524,410.65	2,100,512.17	39° 59' 1.949 N	109° 21' 27.251 W
700.00	2.71	71.46	699.65	5.00	14.90	14,524,412.24	2,100,516.62	39° 59' 1.963 N	109° 21' 27.194 W
800.00	2.71	71.46	799.54	6.50	19.38	14,524,413.83	2,100,521.08	39° 59' 1.978 N	109° 21' 27.136 W
900.00	2.71	71.46	899.43	8.01	23.87	14,524,415.41	2,100,525.54	39° 59' 1.993 N	109° 21' 27.079 W
1,000.00	2.71	71.46	999.32	9.51	28.35	14,524,417.00	2,100,529.99	39° 59' 2.008 N	109° 21' 27.021 W
1,100.00	2.71	71.46	1,099.21	11.02	32.84	14,524,418.59	2,100,534.45	39° 59' 2.023 N	109° 21' 26.963 W
1,200.00	2.71	71.46	1,199.09	12.52	37.32	14,524,420.17	2,100,538.90	39° 59' 2.038 N	109° 21' 26.906 W
1,278.99	2.71	71.46	1,278.00	13.71	40.86	14,524,421.43	2,100,542.42	39° 59' 2.049 N	109° 21' 26.860 W
<b>GREEN RIVER</b>									
1,300.00	2.71	71.46	1,298.98	14.02	41.81	14,524,421.76	2,100,543.36	39° 59' 2.053 N	109° 21' 26.848 W
1,400.00	2.71	71.46	1,398.87	15.53	46.29	14,524,423.35	2,100,547.82	39° 59' 2.067 N	109° 21' 26.790 W
1,500.00	2.71	71.46	1,498.76	17.03	50.77	14,524,424.94	2,100,552.27	39° 59' 2.082 N	109° 21' 26.733 W
1,600.00	2.71	71.46	1,598.65	18.54	55.26	14,524,426.52	2,100,556.73	39° 59' 2.097 N	109° 21' 26.675 W
1,700.00	2.71	71.46	1,698.53	20.04	59.74	14,524,428.11	2,100,561.18	39° 59' 2.112 N	109° 21' 26.618 W
1,800.00	2.71	71.46	1,798.42	21.55	64.23	14,524,429.70	2,100,565.64	39° 59' 2.127 N	109° 21' 26.560 W
1,900.00	2.71	71.46	1,898.31	23.05	68.71	14,524,431.28	2,100,570.10	39° 59' 2.142 N	109° 21' 26.502 W
2,000.00	2.71	71.46	1,998.20	24.55	73.20	14,524,432.87	2,100,574.55	39° 59' 2.157 N	109° 21' 26.445 W
2,064.87	2.71	71.46	2,063.00	25.53	76.11	14,524,433.90	2,100,577.44	39° 59' 2.166 N	109° 21' 26.407 W
<b>8 5/8"</b>									
2,100.00	2.71	71.46	2,098.09	26.06	77.68	14,524,434.46	2,100,579.01	39° 59' 2.172 N	109° 21' 26.387 W
2,200.00	2.71	71.46	2,197.97	27.56	82.17	14,524,436.04	2,100,583.46	39° 59' 2.186 N	109° 21' 26.330 W
2,227.19	2.71	71.46	2,225.14	27.97	83.39	14,524,436.47	2,100,584.68	39° 59' 2.190 N	109° 21' 26.314 W
<b>Start Drop -1.75</b>									
2,300.00	1.44	71.46	2,297.89	28.81	85.88	14,524,437.36	2,100,587.16	39° 59' 2.199 N	109° 21' 26.282 W
2,382.11	0.00	0.00	2,380.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
<b>Start 6184.00 hold at 2382.11 MD</b>									
2,400.00	0.00	0.00	2,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
2,500.00	0.00	0.00	2,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
2,600.00	0.00	0.00	2,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
2,700.00	0.00	0.00	2,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
2,800.00	0.00	0.00	2,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
2,900.00	0.00	0.00	2,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,000.00	0.00	0.00	2,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,100.00	0.00	0.00	3,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,200.00	0.00	0.00	3,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,300.00	0.00	0.00	3,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,400.00	0.00	0.00	3,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,500.00	0.00	0.00	3,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,600.00	0.00	0.00	3,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,700.00	0.00	0.00	3,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,800.00	0.00	0.00	3,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
3,900.00	0.00	0.00	3,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,000.00	0.00	0.00	3,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,100.00	0.00	0.00	4,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W





<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,200.00	0.00	0.00	4,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,300.00	0.00	0.00	4,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,301.11	0.00	0.00	4,299.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
<b>WASATCH</b>									
4,400.00	0.00	0.00	4,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,500.00	0.00	0.00	4,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,600.00	0.00	0.00	4,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,700.00	0.00	0.00	4,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,800.00	0.00	0.00	4,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
4,900.00	0.00	0.00	4,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,000.00	0.00	0.00	4,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,100.00	0.00	0.00	5,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,200.00	0.00	0.00	5,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,300.00	0.00	0.00	5,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,400.00	0.00	0.00	5,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,500.00	0.00	0.00	5,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,600.00	0.00	0.00	5,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,700.00	0.00	0.00	5,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,800.00	0.00	0.00	5,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
5,900.00	0.00	0.00	5,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,000.00	0.00	0.00	5,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,100.00	0.00	0.00	6,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,200.00	0.00	0.00	6,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,300.00	0.00	0.00	6,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,400.00	0.00	0.00	6,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,500.00	0.00	0.00	6,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,600.00	0.00	0.00	6,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,700.00	0.00	0.00	6,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,800.00	0.00	0.00	6,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
6,900.00	0.00	0.00	6,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,000.00	0.00	0.00	6,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,100.00	0.00	0.00	7,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,200.00	0.00	0.00	7,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,300.00	0.00	0.00	7,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,385.11	0.00	0.00	7,383.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
<b>MESAVERDE</b>									
7,400.00	0.00	0.00	7,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,500.00	0.00	0.00	7,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,600.00	0.00	0.00	7,597.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,700.00	0.00	0.00	7,697.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,800.00	0.00	0.00	7,797.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
7,900.00	0.00	0.00	7,897.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,000.00	0.00	0.00	7,997.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,100.00	0.00	0.00	8,097.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,200.00	0.00	0.00	8,197.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,300.00	0.00	0.00	8,297.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,400.00	0.00	0.00	8,397.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,500.00	0.00	0.00	8,497.89	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
8,566.11	0.00	0.00	8,564.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W
<b>BONANZA 1023-5D2DS PBHL</b>									





**SDI**  
Planning Report - Geographic



<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
BONANZA 1023-5D2I	- plan hits target center - Circle (radius 25.00)	0.00	0.00	8,564.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N 109° 21' 26.269 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,064.87	2,063.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,278.99	1,278.00	GREEN RIVER				
4,301.11	4,299.00	WASATCH				
7,385.11	7,383.00	MESAVERDE				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
435.56	435.51	1.02	3.04	Start 1791.63 hold at 435.56 MD	
2,227.19	2,225.14	27.97	83.39	Start Drop -1.75	
2,382.11	2,380.00	29.14	86.86	Start 6184.00 hold at 2382.11 MD	
8,566.11	8,564.00	29.14	86.86	TD at 8566.11	





<b>Database:</b>	EDM 2003.16 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Bonanza 1023-5D2DS
<b>Company:</b>	Kerr McGee Oil and Gas Onshore LP	<b>TVD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Project:</b>	Uintah County, UT UTM12	<b>MD Reference:</b>	GL 5239' & RKB 14' @ 5253.00ft (ASSUMED)
<b>Site:</b>	Bonanza 1023-5D Pad	<b>North Reference:</b>	True
<b>Well:</b>	Bonanza 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

**Targets**
**Target Name**

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
BONANZA 1023-5D2I - plan hits target center - Circle (radius 25.00)	0.00	0.00	8,564.00	29.14	86.86	14,524,437.70	2,100,588.13	39° 59' 2.202 N	109° 21' 26.269 W

**Casing Points**

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,064.87	2,063.00	8 5/8"	8.625	11.000

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,278.99	1,278.00	GREEN RIVER			
4,301.11	4,299.00	WASATCH			
7,385.11	7,383.00	MESAVERDE			

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
435.56	435.51	1.02	3.04	Start 1791.63 hold at 435.56 MD
2,227.19	2,225.14	27.97	83.39	Start Drop -1.75
2,382.11	2,380.00	29.14	86.86	Start 6184.00 hold at 2382.11 MD
8,566.11	8,564.00	29.14	86.86	TD at 8566.11



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
 Surface Use Plan of Operations  
 1 of 14

## Kerr-McGee Oil & Gas Onshore. L.P.

### Bonanza 1023-5D Pad

<u>API #</u>	<u>BONANZA 1023-5C2CS</u>		
	Surface: 519 FNL / 507 FWL	NWNW	Lot 4
	BHL: 485 FNL / 1480 FWL	NENW	Lot 3
<u>API #</u>	<u>BONANZA 1023-5D2DS</u>		
	Surface: 514 FNL / 516 FWL	NWNW	Lot 4
	BHL: 485 FNL / 603 FWL	NWNW	Lot 4
<u>API #</u>	<u>BONANZA 1023-5D3AS</u>		
	Surface: 524 FNL / 499 FWL	NWNW	Lot 4
	BHL: 840 FNL / 591 FWL	NWNW	Lot 4
<u>API #</u>	<u>BONANZA 1023-5E2AS</u>		
	Surface: 529 FNL / 490 FWL	NWNW	Lot 4
	BHL: 1461 FNL / 384 FWL	SWNW	Lot
<u>API #</u>	<u>BONANZA 1023-6A1CS</u>		
	Surface: 534 FNL / 481 FWL	NWNW	Lot 4
	BHL: 361 FNL / 506 FEL	NENE	Lot 1

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on May 19, 2010. Present were:

- David Gordon, NRS; Kevin Sadiler, NRS; Ryan Angus, PET Engineer; Steve Strong, Reclamation; Dan Emmett, Wildlife Biologist - BLM;
- John Slaugh, Mitch Batty, Brian Venn, Jacob Dunham, Jake Edmunds, B.J. Reenders - 609 & Timberline Engineering & Land Surveying, Inc.
- Danielle Piernot and Kathy Schneebeck Dulnoan, Regulatory; Brad Burman, Completions; Clay Einerson, Construction; Grizz Oleen, Environmental; Charles Chase, Reclamation; Lovell Young, Drilling, Roger Parry and Ramey Hoopes, Construction

#### A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

10/12/2011

**RECEIVED: October 14, 2011**



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
2 of 14

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

**All access roads leading to the pad are existing and on lease; therefore do not require a ROW.**

(1.0 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, from existing pad traveling southeast onto existing road to the county road intersection.

**B. New or Reconstructed Access Roads:**

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating

10/12/2011

**RECEIVED: October 14, 2011**



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
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conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

**The following segments are "on-lease"**

±145' (0.02 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, from the edge of pad to the T-intersection in NW/4 NW/4. Please refer to Topo D.

\*\* Please refer to Topo B

**C. Location of Existing Wells:**

A) Refer to Topo Map C.

**D. Location of Existing and/or Proposed Facilities:**

The Bonanza 1023-5D Pad will be a newly constructed pad. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

**GAS GATHERING**

*Please refer to Exhibit B and Topo D- Pad and Pipeline Detail.*

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±5,760' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

±570' (0.11 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the first meter house to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±1,520' (0.29 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the proposed 8" tie-in at the 1023-5C intersection. Please refer to Topo D and Exhibit A, Line 1.

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- ±1,340' (0.25 miles) – Section 5 T10S R23E (SE/4 NW/4) – On-lease UTU33433, BLM surface, New 8" buried gas gathering pipeline from the 1023-5C intersection to the proposed 10" tie-in at the 1023-5K intersection. Please refer to Topo D and Exhibit A, Line 3. This pipeline will be used concurrently with the Bonanza 1023-5C Pad.
- ±2,330' (0.5 miles) – Section 5 T10S R23E (SW/4 NE/4) – On-lease UTU33433, BLM surface, New 10" buried gas gathering pipeline from the 1023-5K intersection traveling Southeast to tie-in to the existing buried 16" gas pipeline. Please refer to Exhibit A, Line 5 & 7. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K, Bonanza 1023-5B and Bonanza 1023-5H pads.

### **LIQUID GATHERING**

The total liquid gathering pipeline distance from the separator to the tie in point is ±5,450' and the individual segments are broken up as follows:

**The following segments are "onlease", no ROW needed.**

- ±570' (0.11 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2-Pad and Pipeline Detail.
- ±1,520' (0.29 miles) – Section 5 T10S R23E (NW/4 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the 1023-5C intersection. Please refer to Topo D and Exhibit B, Line 4.
- ±1,340' (0.25 miles) – Section 5 T10S R23E (SE/2 NW/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-5C intersection to the 1023-5K intersection. Please refer to Exhibit B, Line 5. This pipeline will be used concurrently with the Bonanza 1023-5C pad.
- ±120' (0.02 miles) – Section 5 T10S R23E (SW/2 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the 1023-5K intersection to the 1023-5B intersection. Please refer to Exhibit B, Line 6. This pipeline will be used concurrently with the Bonanza 1023-5C and Bonanza 1023-5K pads.
- ±1,830' (0.35 miles) – Section 5 T10S R23E (SW/4 NE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the main road intersection traveling Southeast to the tie-in point. Please refer Exhibit B, Line 7. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K and Bonanza 1023-5B pads.
- ±70' (0.01 miles) – Section 5 T10S R23E (NE/4 SE/4) – On-lease UTU33433, BLM surface, New 6" buried liquid gathering pipeline from the tie-in point to the compressor site. Please refer to Exhibit B, Line 8. This pipeline will be used concurrently with the Bonanza 1023-5C, Bonanza 1023-5K, Bonanza 1023-5B and Bonanza 1023-5H pads.

### **Pipeline Gathering Construction**

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not



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parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

**The Anadarko Completions Transportation System (ACTS) information:**

Please refer to Exhibit C for ACTs Lines

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Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

#### **E. Location and Types of Water Supply:**

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.



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#### **F. Construction Materials:**

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

#### **G. Methods for Handling Waste:**

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions



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allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

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Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E  
NBU #159 in Sec. 35 T9S R21E  
Ace Oilfield in Sec. 2 T6S R20E  
MC&MC in Sec. 12 T6S R19E  
Pipeline Facility in Sec. 36 T9S R20E  
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E  
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E  
CIGE 112D SWD in Sec. 19 T9S R21E  
CIGE 114 SWD in Sec. 34 T9S R21E  
NBU 921-34K SWD in Sec. 34 T9S R21E  
NBU 921-33F SWD in Sec. 34 T9S R21E

#### **H. Ancillary Facilities:**

No additional ancillary facilities are planned for this location.

#### **I. Well Site Layout:**

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

#### **J. Plans for Surface Reclamation:**

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.



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Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

### **Interim Reclamation**

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

### **Final Reclamation**

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

### **Measures Common to Interim and Final Reclamation**

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Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseed, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a “picker box” in order to seed “fluffy” seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain “cheat grass free seed”.

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

<b>Bonanza Area Mix</b>	<b>Pure Live Seed lbs/acre</b>
Crested Wheat (Hycres)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
<b>Total</b>	<b>9.75</b>

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as “Sustain” (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

### **Weed Control**

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

### **Monitoring**

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when

10/12/2011

**RECEIVED: October 14, 2011**



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
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compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

**K. Surface/Mineral Ownership:**

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**L. Other Information:**

**Onsite Specifics:**

- Construction: 30 Mil Double Felt
- Facilities: Will be painted Shadow Grey
- Top Soil: Need to save 4" topsoil and will be move and put around the corner
- Will need separate condensate tanks because BHL for Bonanza 1023-6A1CS crosses CA boundary.

**Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

**Resource Reports:**

A Class I literature survey was completed on April 23, 2010 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 10-056.

A paleontological reconnaissance survey was completed on May 13, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-11.

Biological field survey was completed on August 20, 2010 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-203.



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
 Bonanza 1023-5E2AS/ 1023-6A1CS  
 Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
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 13 of 14

**Proposed Action Annual Emissions Tables:**

<b>Table 1: Proposed Action Annual Emissions (tons/year)<sup>1</sup></b>			
<b>Pollutant</b>	<b>Development</b>	<b>Production</b>	<b>Total</b>
NO <sub>x</sub>	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO <sub>2</sub>	0.005	0.0043	0.0093
PM <sub>10</sub>	1.7	0.11	1.81
PM <sub>2.5</sub>	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

<sup>1</sup> Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

<b>Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison</b>			
<b>Species</b>	<b>Proposed Action Production Emissions (ton/yr)</b>	<b>2012 Uintah Basin Emission Inventory<sup>a</sup> (ton/yr)</b>	<b>Percentage of Proposed Action to WRAP Phase III</b>
NO <sub>x</sub>	19.6	16,547	0.12%
VOC	25	127,495	0.02%

<sup>a</sup> [http://www.wrapair.org/forums/ogwg/PhaseIII\\_Inventory.html](http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html)

Uintah Basin Data



Bonanza 1023-5C2CS/ 1023-5D2DS/ 1023-5D3AS  
Bonanza 1023-5E2AS/ 1023-6A1CS  
Kerr-McGee Oil Gas Onshore, L.P.

Bonanza 1023-5D Pad  
Surface Use Plan of Operations  
14 of 14

**M. Lessee's or Operators' Representative & Certification:**

Gina T. Becker  
Regulatory Analyst II  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6086

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

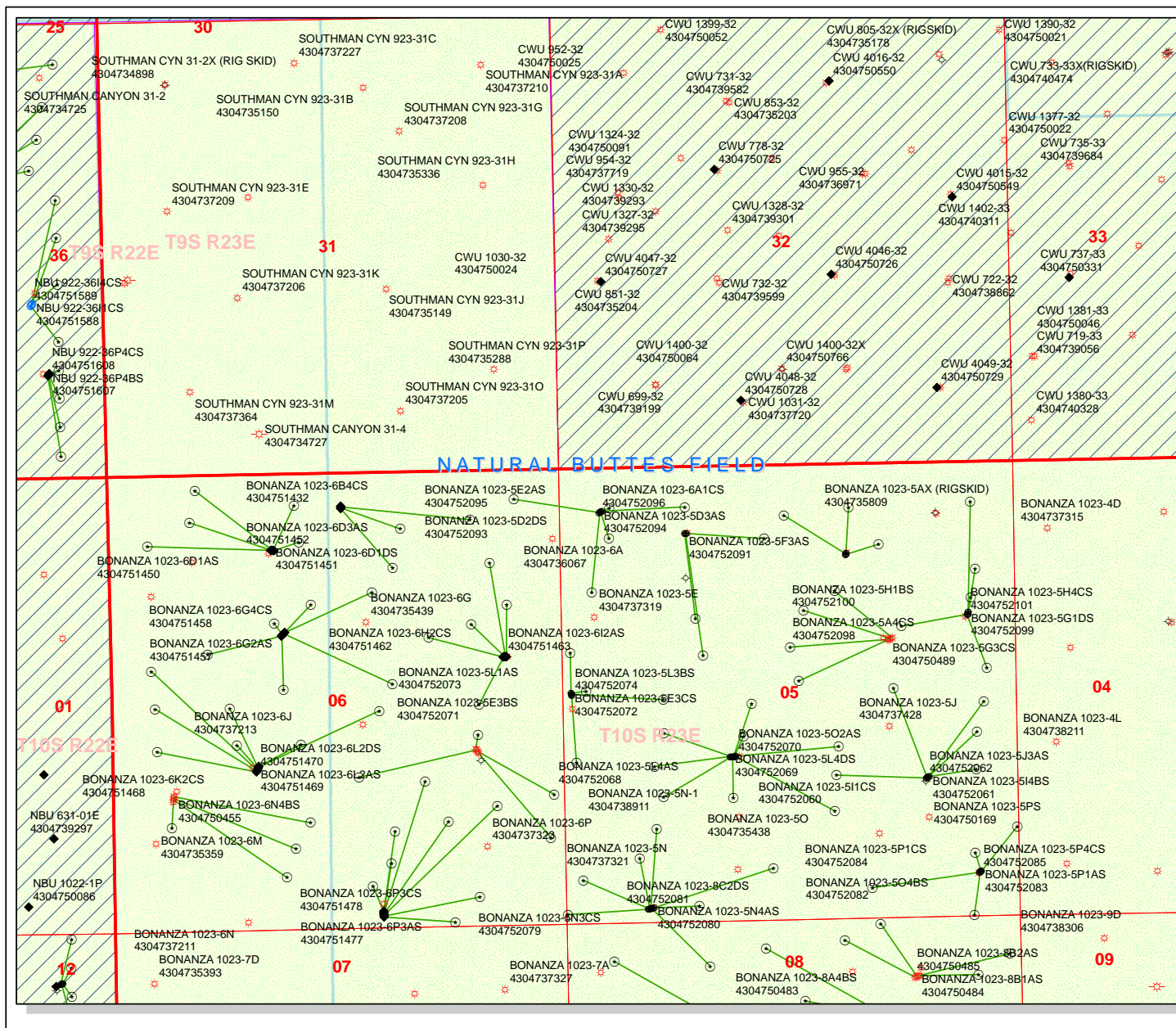
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

  
Gina T. Becker

October 14, 2011  
Date

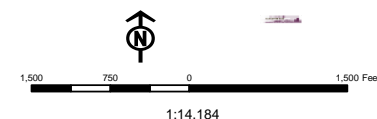




**API Number: 4304752093**  
**Well Name: BONANZA 1023-5D2S**  
**Township T1.0 . Range R2.3 . Section 05**  
**Meridian: SLBM**  
**Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.**

Map Prepared:  
 Map Produced by Diana Mason

- | Units Status  | Wells Query Status                 |
|---------------|------------------------------------|
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERMAL | PA - Plugged Abandoned             |
| PP OIL        | PGW - Producing Gas Well           |
| SECONDARY     | POW - Producing Oil Well           |
| TERMINATED    | RET - Returned APD                 |
|               | SGW - Shut-in Gas Well             |
|               | SOW - Shut-in Oil Well             |
|               | TA - Temp. Abandoned               |
|               | TW - Test Well                     |
|               | WDW - Water Disposal               |
|               | WW - Water Injection Well          |
|               | WSW - Water Supply Well            |





## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 10/14/2011**API NO. ASSIGNED:** 43047520930000**WELL NAME:** BONANZA 1023-5D2DS**OPERATOR:** KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)**PHONE NUMBER:** 720 929-6086**CONTACT:** Gina Becker**PROPOSED LOCATION:** NWNW 05 100S 230E**Permit Tech Review:** ☒**SURFACE:** 0514 FNL 0516 FWL**Engineering Review:** ☒**BOTTOM:** 0485 FNL 0603 FWL**Geology Review:** ☒**COUNTY:** UINTAH**LATITUDE:** 39.98388**LONGITUDE:** -109.35836**UTM SURF EASTINGS:** 640166.00**NORTHINGS:** 4427258.00**FIELD NAME:** NATURAL BUTTES**LEASE TYPE:** 1 - Federal**LEASE NUMBER:** UTU33433**PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE**SURFACE OWNER:** 1 - Federal**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** FEDERAL - WYB000291☐ **Potash**☐ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** 43-8496☐ **RDCC Review:**☐ **Fee Surface Agreement**☒ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:**☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 179-14**Effective Date:** 6/12/2008**Siting:** 460' Fr Ext Drl Unit Boundary☒ **R649-3-11. Directional Drill****Comments:** Presite Completed**Stipulations:**  
3 - Commingle - ddoucet  
4 - Federal Approval - dmason  
15 - Directional - dmason**RECEIVED: October 26, 2011**





GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** BONANZA 1023-5D2DS

**API Well Number:** 43047520930000

**Lease Number:** UTU33433

**Surface Owner:** FEDERAL

**Approval Date:** 10/26/2011

**Issued to:**

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**Commingling:**

In accordance with Board Cause No. 179-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR



submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas



RECEIVED

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

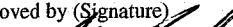
JUL 22 2011

## APPLICATION FOR PERMIT TO DRILL OR REENTER BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. CA-UTU-74473	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		8. Lease Name and Well No. BONANZA 1023-5D2DS	
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE		9. API Well No. 43-047-52093	
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779		3b. Phone No. (include area code) Ph: 720-929-6086 Fx: 720-929-7086	
4. Location of Well (Report location clearly and in accordance with any State requirements.)*  At surface NWNW Lot 4 514FNL 516FWL 39.983831 N Lat, 109.358286 W Lon  At proposed prod. zone NWNW Lot 4 485FNL 603FWL 39.983911 N Lat, 109.357976 W Lon		10. Field and Pool, or Exploratory BONANZA	
11. Sec., T., R., M., or Blk. and Survey or Area  Sec 5 T10S R23E Mer SLB		12. County or Parish UINTAH	
13. State UT		14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 48 MILES SOUTHEAST OF VERNAL, UTAH	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 485		16. No. of Acres in Lease 1923.00	
17. Spacing Unit dedicated to this well		18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 485	
19. Proposed Depth 8566 MD 8564 TVD		20. BLM/BIA Bond No. on file WYB000291	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5242 GL		22. Approximate date work will start 12/31/2011	
23. Estimated duration 60-90 DAYS			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER Ph: 720-929-6086	Date 07/08/2011
Title REGULATORY ANALYST II		
Approved by (Signature) 	Name (Printed/Typed) <b>Jerry Kenczka</b>	Date <b>MAR 02 2011</b>
Title <b>Assistant Field Manager Lands &amp; Mineral Resources</b>	Office <b>VERNAL FIELD OFFICE</b>	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

## CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #112582 verified by the BLM Well Information System  
For KERR-MCGEE OIL & GAS ONSHORE. sent to the Vernal

## NOTICE OF APPROVAL

**RECEIVED**

MAR 14 2012

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4401



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	Lot 4, Sec. 5, T10S, R23E (S) Lot 4, Sec. 5, T10S, R23E (B)
Well No:	Bonanza 1023-5D2DS	Lease No:	UTU-33433
API No:	43-047-52093	Agreement:	CA UTU-74473

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**SITE SPECIFIC COAs**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horse power must not emit more than 2 grams of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NO<sub>x</sub> per horsepower-hour.
- Construction or drilling is not allowed for the Bonanza 1023-5M and Bonanza 1023-5P pads from January 1 – August 31 to minimize impacts during golden eagle nesting.
- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified to conduct surveys for raptors. Depending upon the results of the surveys, permission to proceed may or may not be granted by the Authorized Officer.
- All reclamation will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.



- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- A permitted paleontologist is to be present to monitor construction at well pads 1023-5C, 5D, 5K, 5L, 5M and 5P during all surface disturbing activities: examples include the following building of the well pad, access road, and pipelines.
- The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and
  - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
  - Northeastern Region
  - 152 East 100 North, Vernal, UT 84078
  - Phone: (435) 781-9453
- Discovery Stipulation: Re-initiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.



***DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DRILLING PLAN COA's:**

1. Gamma ray log shall be run from Total Depth to Surface.

**Variances Granted:**

**Air Drilling**

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40' from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter, due to there being no productive formations encountered while air drilling.
- FIT test. Variance granted due to well known geology and problems that can occur with the FIT test.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:**

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.



- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned.
- Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**



- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.



- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047520930000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>5. MATERIAL</b> 5110		<b>COUNTY:</b> UTAH
<b>6. STATE:</b> UTAH		<b>7. STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/16/2012				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.  
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28  
 SACKS READY MIX. SPUD WELL LOCATION ON AUGUST 16, 2012 AT  
 07:30 HRS.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 August 21, 2012

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/20/2012	



## BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG  
Submitted By CARA MAHLER Phone Number 720.929.6029  
Well Name/Number BONANZA 1023-5D2DS  
Qtr/Qtr NWNW Section 5 Township 10S Range 23E  
Lease Serial Number UTU33433  
API Number 4304752093

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 08/16/2012 09:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

Date/Time 08/27/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

**RECEIVED****AUG 15 2012**

DIV. OF OIL, GAS &amp; MINING

Date/Time \_\_\_\_\_ AM ☐ PM ☐

**Remarks** ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6304

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752093	Bonanza 1023-5D2DS		NWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	9999	18673	8/16/2012		8/20/2012		
<b>Comments:</b> MIRU TRIPLE A BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 8/16/2012 AT 07:30 HRS. <i>BHL: nwnw</i>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752092	Bonanza 1023-5C2CS		NWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	9999	18674	8/16/2012		8/20/2012		
<b>Comments:</b> MIRU TRIPLE A BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 8/16/2012 AT 10:00 HRS. <i>BHL: nwnw</i>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752094	Bonanza 1023-5D3AS		NWNW	5	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	9999	18675	8/16/2012		8/20/2012		
<b>Comments:</b> MIRU TRIPLE A BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 8/16/2012 AT 12:00 HRS. <i>BHL: nwnw</i>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print) *Jaime Scharnowske*

Signature  
REGULATORY ANALYST 8/20/2012

Title Date

RECEIVED

AUG 20 2012



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433																														
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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>9/18/2012</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%;"><tr><td><input type="checkbox"/> ACIDIZE</td><td><input type="checkbox"/> ALTER CASING</td><td><input type="checkbox"/> CASING REPAIR</td></tr><tr><td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td><td><input type="checkbox"/> CHANGE TUBING</td><td><input type="checkbox"/> CHANGE WELL NAME</td></tr><tr><td><input type="checkbox"/> CHANGE WELL STATUS</td><td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td><td><input type="checkbox"/> CONVERT WELL TYPE</td></tr><tr><td><input type="checkbox"/> DEEPEN</td><td><input type="checkbox"/> FRACTURE TREAT</td><td><input type="checkbox"/> NEW CONSTRUCTION</td></tr><tr><td><input type="checkbox"/> OPERATOR CHANGE</td><td><input type="checkbox"/> PLUG AND ABANDON</td><td><input type="checkbox"/> PLUG BACK</td></tr><tr><td><input type="checkbox"/> PRODUCTION START OR RESUME</td><td><input type="checkbox"/> RECLAMATION OF WELL SITE</td><td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td></tr><tr><td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td><td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td><td><input type="checkbox"/> TEMPORARY ABANDON</td></tr><tr><td><input type="checkbox"/> TUBING REPAIR</td><td><input type="checkbox"/> VENT OR FLARE</td><td><input type="checkbox"/> WATER DISPOSAL</td></tr><tr><td><input type="checkbox"/> WATER SHUTOFF</td><td><input type="checkbox"/> SI TA STATUS EXTENSION</td><td><input type="checkbox"/> APD EXTENSION</td></tr><tr><td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td><td><input type="checkbox"/> OTHER</td><td>OTHER: <input style="width: 100px;" type="text"/></td></tr></table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  The Operator requests approval for changes in the drilling plan. Specifically, the Operator requests approval for a FIT wavier, closed loop drilling option and a production casing change. The production casing change includes a switch from 4-1/2 inch I-80 11.6 LB BTC/LTC casing to 4-1/2 inch I-80 11.6 LB Ultra DQX/LTC casing. All other aspects of the previously approved drilling plan will not change. Thank you. <div style="text-align: right; margin-top: 20px;"><b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> September 25, 2012 <b>By:</b> </div>																																
<b>NAME (PLEASE PRINT)</b> Cara Mahler		<b>PHONE NUMBER</b> 720 929-6029																														
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst I																														
		<b>DATE</b> 9/18/2012																														



Requested Drilling Options:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/1/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION         </div> </div> <div style="text-align: right; margin-top: 10px;">         OTHER: <input style="width: 100px;" type="text"/> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of September 2012. Well TD at 2,527.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> October 02, 2012		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier		<b>PHONE NUMBER</b> 720 929-6857
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst II
<b>DATE</b> 10/1/2012		



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/5/2012	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> No Activity for the month of October 2012. Well TD at 2,538.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> November 06, 2012		
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske		<b>PHONE NUMBER</b> 720 929-6304
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst
<b>DATE</b> 11/5/2012		



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: P.O. Box 173779  
city DENVER  
state CO zip 80217 Phone Number: (720) 929-6304

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Various	Ponderosa Wells						UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
	18421	18519				5/1/2012	
<b>Comments:</b> Move the attached wells into the Ponderosa unit. All wells are WSMVD. 11/16/2012							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/8/2012

Date

RECEIVED

NOV 08 2012



Well Name	Quarter/Quarter	Section	Township	Range	APUI Number	County	New Entity Number	Formation
BONANZA 1023-6J2AS	NESW	6	10S	23E	4304751465	Uintah	18519	WSMVD
BONANZA 1023-6K1CS	NESW	6	10S	23E	4304751466	Uintah	18519	WSMVD
BONANZA 1023-6K2BS	NESW	6	10S	23E	4304751467	Uintah	18519	WSMVD
BONANZA 1023-6K2CS	NESW	6	10S	23E	4304751468	Uintah	18519	WSMVD
BONANZA 1023-6L2AS	NESW	6	10S	23E	4304751469	Uintah	18519	WSMVD
BONANZA 1023-6L2DS	NESW	6	10S	23E	4304751470	Uintah	18519	WSMVD
BONANZA 1023-6O1BS	SWSE	6	10S	23E	4304751473	Uintah	18519	WSMVD
BONANZA 1023-6O2DS	SWSE	6	10S	23E	4304751474	Uintah	18519	WSMVD
BONANZA 1023-6O3AS	SWSE	6	10S	23E	4304751475	Uintah	18519	WSMVD
BONANZA 1023-6P2BS	SWSE	6	10S	23E	4304751476	Uintah	18519	WSMVD
BONANZA 1023-6P3CS	SWSE	6	10S	23E	4304751478	Uintah	18519	WSMVD
BONANZA 1023-5J2DS	NESW	5	10S	23E	4304752063	Uintah	18519	WSMVD
BONANZA 1023-5K1BS	NESW	5	10S	23E	4304752064	Uintah	18519	WSMVD
BONANZA 1023-5K1CS	NESW	5	10S	23E	4304752065	Uintah	18519	WSMVD
BONANZA 1023-5K3DS	NESW	5	10S	23E	4304752066	Uintah	18519	WSMVD
BONANZA 1023-5L1DS	NESW	5	10S	23E	4304752067	Uintah	18519	WSMVD
BONANZA 1023-5L4AS	NESW	5	10S	23E	4304752068	Uintah	18519	WSMVD
BONANZA 1023-5L4DS	NESW	5	10S	23E	4304752069	Uintah	18519	WSMVD
BONANZA 1023-5O2AS	NESW	5	10S	23E	4304752070	Uintah	18519	WSMVD
BONANZA 1023-5E3BS	SWNW	5	10S	23E	4304752071	Uintah	18519	WSMVD
BONANZA 1023-5E3CS	SWNW	5	10S	23E	4304752072	Uintah	18519	WSMVD
BONANZA 1023-5L1AS	SWNW	5	10S	23E	4304752073	Uintah	18519	WSMVD
BONANZA 1023-5L3BS	SWNW	5	10S	23E	4304752074	Uintah	18519	WSMVD
BONANZA 1023-5M1AS	SWSW	5	10S	23E	4304752075	Uintah	18519	WSMVD
BONANZA 1023-5M1CS	SWSW	5	10S	23E	4304752076	Uintah	18519	WSMVD
BONANZA 1023-5M3BS	SWSW	5	10S	23E	4304752077	Uintah	18519	WSMVD
BONANZA 1023-5M3CS	SWSW	5	10S	23E	4304752078	Uintah	18519	WSMVD
BONANZA 1023-5N3CS	SWSW	5	10S	23E	4304752079	Uintah	18519	WSMVD
BONANZA 1023-5O4BS	SESE	5	10S	23E	4304752082	Uintah	18519	WSMVD
BONANZA 1023-5P1AS	SESE	5	10S	23E	4304752083	Uintah	18519	WSMVD
BONANZA 1023-5P1CS	SESE	5	10S	23E	4304752084	Uintah	18519	WSMVD
BONANZA 1023-5P4CS	SESE	5	10S	23E	4304752085	Uintah	18519	WSMVD
BONANZA 1023-5C4AS	NENW	5	10S	23E	4304752089	Uintah	18519	WSMVD
BONANZA 1023-5F2CS	NENW	5	10S	23E	4304752090	Uintah	18519	WSMVD
BONANZA 1023-5F3AS	NENW	5	10S	23E	4304752091	Uintah	18519	WSMVD
BONANZA 1023-5C2CS	NWNW	5	10S	23E	4304752092	Uintah	18519	WSMVD
BONANZA 1023-5D2DS	NWNW	5	10S	23E	4304752093	Uintah	18519	WSMVD
BONANZA 1023-5D3AS	NWNW	5	10S	23E	4304752094	Uintah	18519	WSMVD
BONANZA 1023-5E2AS	NWNW	5	10S	23E	4304752095	Uintah	18519	WSMVD
BONANZA 1023-6A1CS	NWNW	5	10S	23E	4304752096	Uintah	18519	WSMVD
BONANZA 1023-6I3AS	SWNW	5	10S	23E	4304752387	Uintah	18519	WSMVD
BONANZA 11-2	SWNW	11	10S	23E	4304734773	Uintah	18519	WSMVD
BONANZA 1023-6E4AS	SENE	6	10S	23E	4304751453	Uintah	18519	WSMVD
BONANZA 1023-6F1AS	SENE	6	10S	23E	4304751454	Uintah	18519	WSMVD
BONANZA 1023-6F1CS	SENE	6	10S	23E	4304751455	Uintah	18519	WSMVD
BONANZA 1023-6F4CS	SENE	6	10S	23E	4304751456	Uintah	18519	WSMVD
BONANZA 1023-6G2AS	SENE	6	10S	23E	4304751457	Uintah	18519	WSMVD
BONANZA 1023-6G4CS	SENE	6	10S	23E	4304751458	Uintah	18519	WSMVD
BONANZA 1023-6A3DS	SENE	6	10S	23E	4304751459	Uintah	18519	WSMVD
BONANZA 1023-6G1DS	SENE	6	10S	23E	4304751460	Uintah	18519	WSMVD
BONANZA 1023-6H1BS	SENE	6	10S	23E	4304751461	Uintah	18519	WSMVD
BONANZA 1023-6H2CS	SENE	6	10S	23E	4304751462	Uintah	18519	WSMVD
BONANZA 1023-6I2AS	SENE	6	10S	23E	4304751463	Uintah	18519	WSMVD
BONANZA 1023-6I3DS	SWSE	6	10S	23E	4304751471	Uintah	18519	WSMVD
BONANZA 1023-6J4AS	SWSE	6	10S	23E	4304751472	Uintah	18519	WSMVD
BONANZA 1023-6P3AS	SWSE	6	10S	23E	4304751477	Uintah	18519	WSMVD



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>5. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of November 2012. Well TD at 2,538.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 05, 2012		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/3/2012	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  <div style="display: flex; justify-content: space-between;"> <div style="width: 70%;">           FINISHED DRILLING TO 8,632' ON 12/01/2012. CEMENTED PRODUCTION CASING. RELEASED XTC 12 RIG ON 12/03/2012. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES         </div> <div style="width: 25%; text-align: center;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining              FOR RECORD ONLY              December 06, 2012</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/6/2012



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/4/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 8,632		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> February 13, 2013		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/4/2013	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>PHONE NUMBER:</b> 720 929-6514		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/4/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
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	<input type="checkbox"/> DEEPEN	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Started completing the well. Well TD at 8,632		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> March 05, 2013		
<b>NAME (PLEASE PRINT)</b> Lindsey Frazier	<b>PHONE NUMBER</b> 720 929-6857	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/4/2013	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/3/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No Activity for the month of March 2013. Well TD at 8,632		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 04, 2013		
<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/3/2013	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/03/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> May 06, 2013		
<b>NAME (PLEASE PRINT)</b> Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	<b>TITLE</b> Staff Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/6/2013	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																																																							
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<b>DATE</b> 5/3/2013																																																									



RECEIVED: May. 30, 2013



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1065 1480 2021 4319 6434

## 32. Additional remarks (include plugging procedure):

The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. DQX csg was run from surface to 5033 ft; LTC csg was run from 5033 ft. to 8628 ft. Attached is the chronological well history, perforation report and final survey.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #208991 Verified by the BLM Well Information System.  
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal**

Name(*please print*) TEENA PAULOTitle STAFF REGULATORY SPECIALIST

Signature \_\_\_\_\_ (Electronic Submission)

Date 05/30/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**RECEIVED:** May. 30, 2013



**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/12/2012	12:00 - 18:00	6.00	MIRU	01	A	P		MOVE RIG 5.3 MILES TO BON 1023-5D PAD RIG UP MOVED WITH 6 TRUCKS AND 3 SWAMPERS FORM JD FIELD SERVICES. MOVED CAMPS WITH 3 TRUCKS AND TWO SWAMPERS. MOVED RIG IN A TOTAL OF 6 HOURS. SET MUD TANKS, 400 BBL UPRIGHT TANKS AND, FRACK TANKS, SET IN FLOW BACK TANK, SET MUD PUMP, SET FUEL SKID, SET DOG HOUSE MATTING BOARD AND, RIG. SET IN CAMPS.
	18:00 - 23:30	5.50	MIRU	01	B	P		RIG UP ALL 4" MUD LINES, RIG UP FLOW LINE, RIG UP ALL NOV EQUIPMENT, SET AND RAISE DERRICK, RIG UP RIG. SAFETY AND RIG INSPECTION, RIG UP, NOV HAD A WELDER REPAIRING THEIR MUD TANKS WORKED ON THEM FOR TWO HOURS. PREPARE TO SPUD.
	23:30 - 0:00	0.50	PRSPD	07	A	P		PRE SPUD JOB SAFETY MEETING FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN # 5)- .17 REV/GAL SN (775-77197). PICK UP 12.25 Q506 DRILL BIT RUN 34 SN (7020485)
9/13/2012	0:00 - 20:00	20.00	MIRU	21	D	Z		***DELAY: (NOV) SURFACE PRIOR TO SPUD OF WELL.  WAITED ON NOV TO REPAIR SUCTION TANK BOTTOM, WELDED BOTTOM OF SUCTION TANK, THEN ADDED SOME APOXIE AND LET SET FOR 3 HOURS BEFOR FILLING WITH WATER.
	20:00 - 21:30	1.50	DRLSUR	02	D	P		SPUD 09/13/2012 20:00. DRILL 12.25" HOLE 44'-210' (166', 110'/PER HOUR). 12.25 in. BIT ON 33 th RUN. WEIGHT ON BIT 5-15 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF (BOTTOM) 800/600. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K.  CIRCULATE CLOSED LOOP SYSTEM WITH 8.5# WATER. DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	21:30 - 23:00	1.50	DRLSUR	06	A	P		CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. PRE JOB SAFETY MEETING, LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP Q506F 11" BIT (2ND RUN) (SN 7138966) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL, TRIP IN HOLE.



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:00 - 0:00	1.00	DRLSUR	02	D	P		DRILL 11". SURFACE HOLE 210'-400', (190', 190'/PER HOUR). WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 850/650. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 24/20/22 K. DRAG 2 K.  SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS
9/14/2012	0:00 - 6:00	6.00	DRLSUR	02	D	P		NO HOLE ISSUES. DRILL 11". SURFACE HOLE 400'-1000', (600', 100'/PER HOUR). WEIGHT ON BIT 15-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 850/650. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 24/20/22 K. DRAG 2 K.  SLIDING 15' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES  CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS
	6:00 - 12:00	6.00	DRLSUR	02	B	P		NO HOLE ISSUES. DRILL 11". SURFACE HOLE 1000'-1755', (755', 125'/PER HOUR). WEIGHT ON BIT 20-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE 491. PRESSURE ON/OFF(BOTTOM) 1250/1050. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 65/45/55 K. DRAG 10 K.  SLIDING 8' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES  CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME OVER BOTH SHAKERS,  PUT AIR ON THE HOLE @ 1800 CFM FROM 1400' BIRDS NEST FORMATION.  NO OTHER HOLE ISSUES.



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 18:30	6.50	DRLSUR	02	B	P		<p>DRILL 11". SURFACE HOLE 1755'-2527', (772', 118'/PER HOUR).</p> <p>WEIGHT ON BIT 20-25 K.</p> <p>STROKES PER MINUTE 120 GALLONS PER MINUTE 491.</p> <p>PRESSURE ON/OFF(BOTTOM) 1590/1420.</p> <p>ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138.</p> <p>UP/DOWN/ ROT 83/66/77 K. DRAG 6 K.</p> <p>SLIDING 8' PER 90'OF ROTATION GETTING 1.3 DEGREE BUILD RATES</p> <p>CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER.</p> <p>RUNNING VOLUME OVER BOTH SHAKERS PUT AIR ON THE HOLE @ 1800 CFM FROM 1400' BIRDS NEST FORMATION.</p>
	18:30 - 21:00	2.50	DRLSUR	05	A	P		<p>NO OTHER HOLE ISSUES.</p> <p>CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4 400 BBL UPRIGHT'S FULL AND 2 EMPTY, MUD TANKS FULL, HOLE IS STILL LOSING VOLUME LOSING VOLUME.</p>
	21:00 - 0:00	3.00	CSGSUR	06	D	P		<p>TRIP OUT OF HOLE, LAY DOWN BOTTOM HOLE ASSEMBLY, DIRECTIONAL TOOLS, MOTOR AND, BIT. LAY DOWN DIRECTIONAL TOOLS. CLEAR TOOL AREA.</p>
9/15/2012	0:00 - 1:30	1.50	CSGSUR	06	A	P		<p>PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING.</p> <p>CLEAR UNRELATED TOOLS.</p>
	1:30 - 4:00	2.50	CSGSUR	12	C	P		<p>RUN 57 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS, AND EVERY OTHER JOINT FOR 5 JOINTS FOR A TOTAL OF 8 CENTRALIZERS.</p> <p>RUN A TOTAL OF 57 JOINTS.</p> <p>SET FLOAT SHOE @ 2497.24' KB.</p> <p>SET TOP OF BAFFLE PLATE @ 2451.09' KB.</p>



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	4:00 - 5:30	1.50	CSGSUR	12	E	P		<p>RAN 200 ft OF 1 lin. PIPE DOWN BACK-SIDE OF CASING.</p> <p>PRE JOB SAFETY MEETING, PRESSURE TEST LINES TO 2000 PSI.</p> <p>PUMP 145 BBLS OF WATER AHEAD.</p> <p>MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD.</p> <p>MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY,</p> <p>DISPLACE W/ 152 BBLS OF H2O, NO RETURNS THROUGH OUT JOB,</p> <p>FINAL LIFT OF 170 PSI AT 3 BBL/MIN.</p> <p>BUMP THE PLUGG WITH 470 PSI, HELD 450 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT DID NOT HOLD.</p>
	5:30 - 6:00	0.50	CSGSUR	12	E	P		<p>SHUT DOWN AND WASH UP.</p> <p>PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO RETURNS TO SURFACE.</p>
	6:00 - 11:30	5.50	CSGSUR	12	E	P		<p>SHUT DOWN AND WASH UP.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT NO RETURNS TO SURFACE.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx (20.4 bbls.) SAME CEMENT NO RETURNS TO SURFACE.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 125 sx (25.6 bbls.) SAME CEMENT NO RETURNS TO SURFACE.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx (20.4 bbls.) SAME CEMENT NO RETURNS TO SURFACE.</p> <p>WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 180 sx (36.8 bbls.) SAME CEMENT RETURN WITH 3 BBLS TO SURFACE.</p> <p>RIG DOWN CEMENTERS. (CEMENT JOB FINISHED AT 11:30 hrs. 09/15/2012)</p>
11/28/2012	13:00 - 14:00	1.00	MIRU	01	C	P		RELEASE RIG AT 11:30 hrs. 09/15/2012
	14:00 - 14:30	0.50	MIRU	01	B	P		SKID AND CENTER THE RIG OVER THE HOLE
	14:30 - 15:00	0.50	PRPSPD	14	A	P		RIG UP FLOW LINE AND MUD LINES
								NIPPLE UP THE BOP



## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 19:30	4.50	PRPSPD	15	A	P		HOLD SAFETY MEETING. TEST TOP DRIVE VALVE, I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES AND CHOKES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES.
	19:30 - 20:00	0.50	PRPSPD	14	B	P		INSTALL THE WEAR BUSHING AND DO A PRE SPUD INSPECTION
	20:00 - 23:30	3.50	PRPSPD	06	A	P		PICKED UP AND SCRIBED THE BHA, PUT ON ROT RUBBER, THEN TRIPPED IN THE HOLE.
	23:30 - 0:00	0.50	PRPSPD	09	A	P		CUT 8 WRAPS 52' DRILLING LINE.
11/29/2012	0:00 - 0:30	0.50	PRPSPD	09	A	P		FINISH CUTTING 8 WRAPS 52' DRILLING LINE.
	0:30 - 1:30	1.00	PRPSPD	06	A	P		TRIP IN HOLE AND TAGGED CEMENT AT 2400'
	1:30 - 2:30	1.00	DRLPRC	02	F	P		DRILLED THE SHOE TRACK F/ 2400' TO 2538'
	2:30 - 5:30	3.00	DRLPRC	02	B	P		DRILL SLIDE 2538' - 2781' (243' @ 81' /HR) WEIGHT ON BIT 12-17K. AVERAGE WEIGHT ON BIT 15K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1600/1900. DIFFERENTIAL 350. TORQUE HIGH/LOW 4000/2200. STRING WEIGHT UP/DOWN/ROT 65/55/60. DRAG 5 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.0 VIS 31. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE Slide-15'=6% Rotate-228'=94% Time Slide-0.25Hrs=8% Rotate-2.75Hrs=92% 4' Right, 0' High/Low
	5:30 - 6:00	0.50	DRLPRC	07	A	P		RIG SERVICE



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE 2781' TO 4466' (1685' @ 146' /HR) WEIGHT ON BIT 12-17K. AVERAGE WEIGHT ON BIT 15K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1450/1850. DIFFERENTIAL 310. TORQUE HIGH/LOW 4200/2200. STRING WEIGHT UP/DOWN/ROT 97/80/87. DRAG 10 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 8.7 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 100 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	18:00 - 22:30	4.50	DRLPRV	02	B	P		DRILL SLIDE 4466' TO 4997 (531' @ 118' /HR) WEIGHT ON BIT 12-17K. AVERAGE WEIGHT ON BIT 15K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1450/1850. DIFFERENTIAL 310. TORQUE HIGH/LOW 3456/2200. STRING WEIGHT UP/DOWN/ROT 109/97/101. DRAG 8 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.1 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE Current position = 6.51' North 25.22' West
	22:30 - 23:30	1.00	DRLPRV	05	C	P		CIRCULATE BOTTOMS UP PRIOR TO TRIPPING
	23:30 - 0:00	0.50	DRLPRV	06	A	P		TRIPPED OUT OF THE HOLE AND PICKED UP THE GHOST REAMER. INSTALLED THE REAMER 2000' ABOVE THE BIT.
11/30/2012	0:00 - 2:00	2.00	DRLPRV	06	A	P		TRIPPED OUT OF THE HOLE AND PICKED UP THE GHOST REAMER. INSTALLED THE REAMER 2000' ABOVE THE BIT.
	2:00 - 5:00	3.00	DRLPRV	06	A	P		TRIPPING IN HOLE WASH 2 JOINTS TO 4497'



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:00 - 5:30	0.50	DRLPRV	02	B	P		DRILL SLIDE 4997' TO 5013' (16' @32' /HR) WEIGHT ON BIT 12-17K. AVERAGE WEIGHT ON BIT 15K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI 1450/1850. DIFFERENTIAL 310. TORQUE HIGH/LOW 3400/2200. STRING WEIGHT UP/DOWN/ROT 109/97/101. DRAG 8 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 9.1 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE
	5:30 - 6:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE 5013' TO 6248' (1235' @107' /HR) WEIGHT ON BIT 20-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI. 2100-1700 DIFFERENTIAL 240. TORQUE HIGH/LOW 5500/2200. STRING WEIGHT UP/DOWN/ROT 120/100/115. DRAG 5 K. NOV RUNNING 2 CENTRIFUGES ON DEWATER. WT 8.8 VIS 34. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 75 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE Footage Slide-31'=2% Rotate-1204'=98% Time Slide-0.83Hrs=7% Rotate-11.16Hrs=93% 14' North, 2' West of target center
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE SERVICES TOP DRIVE GREASE TRAVLING BLOCKS



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	18:00 - 0:00	6.00	DRLPRV	02	B	P		DRILL SLIDE 6248' TO 6840' (592' @98' /HR) WEIGHT ON BIT 20-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI. 1772-2061 DIFFERENTIAL 310. TORQUE HIGH/LOW 4800/2100. STRING WEIGHT UP/DOWN/ROT 134/116/123. DRAG 11 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 34. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 40 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE Slide-24'=4% Rotate-564'=96% Time Slide-0.5Hrs=8% Rotate-5.5Hrs=92% 11' North, 7' West of target center
12/1/2012	0:00 - 5:30	5.50	DRLPRV	02	B	P		DRILL SLIDE F/ 6840' TO 7262' (422' @76.7' /HR) WEIGHT ON BIT 20-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI. 1725-2167 DIFFERENTIAL 484. TORQUE HIGH/LOW 3446/1233. STRING WEIGHT UP/DOWN/ROT 138/118/127. DRAG 11 K. NOV RUNNING 1 CENTRIFUGES ON DEWATER. WT 8.8 VIS 35. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 70 BBLS OF DRILL WATER TO PITS FOR VOLUME) NO FLARE Current position in target = 11' North 8' West  Footage      Feet      % Total426 Slide6214.55% Rotate36485.45% Time      Min      Hrs      % Total 3305.5 Slide1101.83333333.33% Rotate2203.66666766.67%
	5:30 - 6:00	0.50	DRLPRC	07	A	P		RIG SERVICE



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 17:30	11.50	DRLPRV	02	B	P		DRILL SLIDE F/ 7262' TO 8462' (1200' @104' /HR) WEIGHT ON BIT 20-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI. 2200-2700 DIFFERENTIAL 200. TORQUE HIGH/LOW 4000/2500. STRING WEIGHT UP/DOWN/ROT 135/120/130. DRAG 5 K. NOV OFF LINE WT 9.0 VIS 35. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. (ADD 65 BBLS OF DRILL WATER TO PITS FOR VOLUME ) NO FLARE Footage Slide-0'=0% Rotate-1200'=100% Time Slide-0Hrs=0% Rotate-11.5Hrs=100% 7' South, 4' West of target center
	17:30 - 18:00	0.50	DRLPRC	07	A	P		RIG SERVICE
	18:00 - 20:30	2.50	DRLPRV	02	B	P		DRILL SLIDE F/ 8462' TO 8632' (170' @85' /HR) WEIGHT ON BIT 20-25 K. AVERAGE WEIGHT ON BIT 20 K. ROTARY RPM 55, MUD MOTOR RPM 168. STROKES PER MINUTE 115 GALLONS PER MINUTE 517. OFF/ON PSI. 2200-2700 DIFFERENTIAL 200. TORQUE HIGH/LOW 5670/2717. STRING WEIGHT UP/DOWN/ROT 154/133/141. DRAG 13 K. NOV OFF LINE WT 9.7 VIS 35. PUMP LCM SWEEPS TO HELP WITH LOSSES. ADD 0 BBLS OF DRILL WATER TO PITS FOR VOLUME ) NO FLARE Footage Slide-0'=0% Rotate-170'=100% Time Slide-0Hrs=0% Rotate-2Hrs=100% 10' South, 1' West of target center
	20:30 - 22:00	1.50	DRLPRV	05	C	P		CIRCULATE AND CONDITION PRIOR TO WIPER TRIP #1 PUMPED 1 SWEEP TO CLEAN UP THE HOLE( 50 VIS, 5% FIBER NUTPLUG LCM) 11.7 MW 42 VIS
	22:00 - 0:00	2.00	DRLPRV	06	E	P		HELD SAFETY MEETING , WIPER TRIP # 1 TRIP F/ 8632' TO5729' @00:00



## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: PROPETRO 12/12, XTC 12/12

Event: DRILLING

Start Date: 8/30/2012

End Date: 12/3/2012

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/2/2012	0:00 - 3:30	3.50	DRLPRV	06	E	P		FINISHED WIPER TRIP #1 TRIPPED TO BOTTOM NO FILL
	3:30 - 5:30	2.00	DRLPRV	05	C	P		***SECOND WIPER TRIP CIRCULATE AND CONDITION PRIOR TO WIPER TRIP #2 11.8 MW 39 VIS NO FLARE ON BOTTOMS UP ( OFF THE BUSTER)
	5:30 - 12:00	6.50	DRLPRV	06	E	P		***SECOND WIPER TRIP TRIPPED OUT TO PULL THE GHOST REAMER INSIDE OF THE CASING SHOE. THEN FILLED THE DRILL PIPE AND TRIPPED BACK IN THE HOLE. FILLED THE HOLE @ 6500'
	12:00 - 13:30	1.50	DRLPRV	05	C	P		CIRCULATE AND CONDITION FOR LOGS PUMP A SWEEP THEN PUMPED 4% LCM ( CEDAR FIBER, NUTPLUG) AROUND TO SURFACE NO FLARE ON BOTTOMS UP
	13:30 - 21:30	8.00	DRLPRV	06	A	P		TRIPPED OUT OF THE HOLE FOR LOGS. PULLED FREE WITH NO TIGHT SPOTS ON THE TRIP OUT. BREAK BIT LAY DOWN M.M & DIR TOOLS.
	21:30 - 0:00	2.50	DRLPRV	11	D	P		HELD A SAFETY MEETING WITH HALLIBURTON. RIGGED UP THE LOGGING TOOLS AND EQUIPMENT .RAN TRIPLE COMBO LOG. DRILLERS TD 8632' LOGGERS TD 8635'
12/3/2012	0:00 - 3:30	3.50	DRLPRV	11	D	P		FINISH RUNNING TRIPLE COMBO LOG. DRILLERS TD 8632' LOGGERS TD 8635' RIG DOWN SAME.
	3:30 - 4:00	0.50	DRLPRV	14	B	P		PULLED THE WEAR BUSHING,BREAK SAVOR SUB ON TOP DRIVE.
	4:00 - 12:30	8.50	CSGPRO	12	C	P		RIG UP KIMZEY RAN 197 TOTAL JTS. OF CASING (81 JOINTS OF 4.5"/11.6# / I-80/ LTC + 1 MARKER) + (114 JTS. OF 4.5"/ 11.6#/ I-80/ DQX + 1-DQX CROSS OVER). LANDED @8612.92', FLOAT COLLAR @ 8580.80', MESA VERDE MARKER @ 6355.90', CROSS OVER JT. @512.40' STRING WT 70 K
	12:30 - 14:00	1.50	CSGPRO	05	D	P		CIRC BOTTOMS UP 11.8 42 VIS NO FLAIR.
	14:00 - 17:00	3.00	CSGPRO	12	E	P		HELD A SAFETY MEETING WITH BAKER THEN PRESSURE TEST TO 5000 PSI. PUMP 25 BBLS OF FRESH WATER. PUMP 166 BBLS ( 470 SX) OF PREMIUM LITE II LEAD CEMENT,12.5 PPG 1.98 YLD, .05 LB/SACK OF STATIC FREE + .4% BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2% BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 100.1%FRESH WATER . FOLLOWED BY 254.93 BBLS ( 1085 SX ) OF 14.3 # 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHLORIDE + .55%BWOC R-3 + .002GPS FP-6L + 58.8% FRESH WATER . SHUT DOWN AND FLUSH LINES. DROP PLUG AND DISPLACE W/ 132.7 BBLS OF FRESH WATER TREATED WITH CLAYFIX AND MAGNACIDE.FULL RETURNS NO CEMENT. TO SURFACE LIFT PSI OF 2214 / BUMP PLUG 3079 PSI. PRESSURE HELD 5 MINS. FLOAT HELD. FLOW BACK 1.5 BBLS. EST. TOC FOR LEAD 500'. RIG DOWN CEMENTERS.
	17:00 - 17:30	0.50	RDMO	14	A	P		NIPPLED DOWN THE BOP
	17:30 - 18:00	0.50	RDMO	14	B	P		SET CSG HANGER. RIG RELEASED @ 18:00



US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5D2DS RED	Wellbore No.	OH
Well Name	BONANZA 1023-5D2DS	Wellbore Name	BONANZA 1023-5D2DS
Report No.	1	Report Date	4/29/2013
Project	UTAH-UINTAH	Site	BONANZA 1023-5D PAD
Rig Name/No.		Event	COMPLETION
Start Date	12/13/2012	End Date	5/3/2013
Spud Date	9/13/2012	Active Datum	RKB @5,254.00usft (above Mean Sea Level)
UWI	NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/O/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	7,589.0 (usft)	-8,558.0 (usft)	Start Date/Time	4/29/2013 12:00AM
Surface Press		Estimate Res Press		No. of Intervals		24	End Date/Time	4/29/2013 12:00AM
TVD Fluid Top		Fluid Head		Total Shots		80	Net Perforation Interval	25.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density		3.20 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL						Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			7,589.0	7,590.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N



## US ROCKIES REGION

## 2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			7,640.0	7,641.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,667.0	7,668.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,696.0	7,697.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,729.0	7,730.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,763.0	7,764.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,789.0	7,790.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,825.0	7,826.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,849.0	7,850.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,905.0	7,906.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,925.0	7,926.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			7,957.0	7,958.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,016.0	8,017.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,085.0	8,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,092.0	8,093.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,109.0	8,110.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,155.0	8,156.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,176.0	8,177.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,196.0	8,197.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,279.0	8,280.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,292.0	8,293.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,362.0	8,363.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

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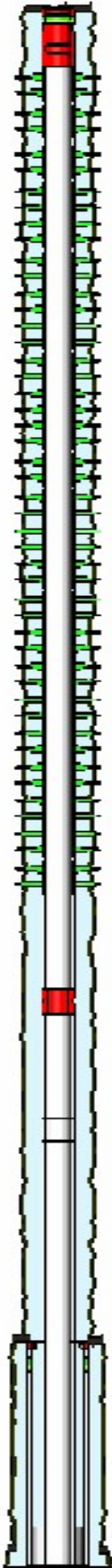
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/29/2013 12:00AM	MESAVERDE/			8,487.0	8,488.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
4/29/2013 12:00AM	MESAVERDE/			8,556.0	8,558.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

3 Plots

3.1 Wellbore Schematic



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**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 12/13/2012

End Date: 5/3/2013

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/13/2012	-							
12/14/2012	-							
3/25/2013	7:00 - 7:30	0.50	SUBSPR	48		P		ROADING RIG
	7:30 - 17:00	9.50	SUBSPR	40				RDMO FROM NBU 921-26J PAD, ROAD RIG TO BONANZA 1023-5D PAD, LEVEL LOC, MIRU, NDWH CK FOR H2S, CLEAN, NU BOP'S, TEST BOP'S, PU BIT, BIT SUB, TBG, TIH 11 JTS, 3507' SWIFN
3/26/2013	7:00 - 7:30	0.50	SUBSPR	48		P		TRIPPING TBG
	7:30 - 17:00	9.50	SUBSPR	31	H	P		TIH TBG TO 8580', 270 JTS, CIRC WELLBORE CLEAN WITH 145 BBLS TREATED T-MAC, POOH LAY DWN TBG ON TLR, ND BOP'S, NU WH, RDMO TO BON 1023-5D2CS
4/25/2013	8:00 - 12:00	4.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 60 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.  PRESSURE TEST 8 5/8 X 4 1/2 TO 516 PSI HELD FOR 5 MIN LOST -30 PSI,BLED PSI OFF, REINSTALLED POP OFF  PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW HSM. HIGH PSI LINES
4/29/2013	6:45 - 7:00	0.25	FRAC	48		P		



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 12/13/2012

End Date: 5/3/2013

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 18:00	11.00	FRAC	36	B	P		FRAC STG 1) SWHP 1439 PSI, BRK 5589 PSI @ 5.1 BPM. ISIP 2291 PSI, FG. 0.71 ISIP 2484 PSI, FG. 0.73, NPI 193 PSI. SWI, XO T/ WL.  PERF STG 2)SET CBP & PERF AS PER PROCEDURE.  FRAC STG 2)WHP 2146 PSI, BRK 4088 PSI @ 4.8 BPM. ISIP 2359 PSI, FG. 0.73 ISIP 2502 PSI, FG. 0.75, NPI 143 PSI. SWI, XO T/ WL.  PERF STG 3)SET CBP & PERF AS PER PROCEDURE.  FRAC STG 3)WHP 1908 PSI, BRK 3156 PSI @ 5.1 BPM. ISIP 2191 PSI, FG. 0.72 ISIP 2211 PSI, FG. 0.72, NPI 20 PSI. SWI, XO T/ WL. SWI, XO T/ WL.  PERF STG 4)SET CBP & PERF AS PER PROCEDURE.  FRAC STG 4)WHP 1440 PSI, BRK 3622 PSI @ 4.9 BPM. ISIP 1865 PSI, FG. 0.68 ISIP 2117 PSI, FG. 0.72, NPI 252 PSI. SWI, XO T/ WL.  PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7539'. DONE FRACING THIS WELL.  TOTAL SAND = 107,291 LBS TOTAL CLFL = 5137 BBLS
5/3/2013	7:00 - 7:30	0.50	DRLOUT			P		HSM, PICKING UP TBG OFF TRAILOR.
	7:30 - 10:00	2.50	DRLOUT	30	A	P		SICP 700, BLEAD OFF, ND BOPS NU WH RIG DWN OFF ORANGE WELL, MOVED OVER & RIGGED UP ON RED WELL, ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	10:00 - 13:00	3.00	DRLOUT	31	I	P		TALLY & PU 37/8 BIT, POBS, 1.875 X/N, 150 JTS 23/8 J-55, 6' L-80 PUP JT, 87 JTS 23/8 L-80 TAG UP @ 7512', RU DRLG EQUIP,



API Well Number: 43047520930000

## US ROCKIES REGION

## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: COMPLETION

Start Date: 12/13/2012

End Date: 5/3/2013

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:00 - 17:00	4.00	DRLOUT	44	C	P		<p>BROKE CIRC CONV, CHECKED RAMS, TEST BOPS 3,000 PSI, RIH.</p> <p>C/O 15' SAND TAG 1ST PLG @ 7539' DRL PLG IN 12 MINS 600 PSI INCREASE RIH.</p> <p>C/O 75' SAND TAG 2ND PLG @ 7815' DRL PLG IN 3 MINS 400 PSI INCREASE RIH.</p> <p>C/O 30' SAND TAG 3RD PLG @ 7988' DRL PLG IN 2 MINS 300 PSI INCREASE RIH.</p> <p>C/O 45' SAND TAG 4TH PLG @ 8227' DRL PLG IN 4 MINS 600 PSI INCREASE RIH.</p> <p>C/O TO @ 8568' CIRC CLN, HANG SWIVEL, L/D 18 JTS 23/8 L-80, LAND TBG ON 252 JTS 23/8, ND BOPS NU WH, TEST FLOW LINE, PUMPED OFF BIT, TURN OVER TO FB CREW.</p> <p>KB = 15'</p> <p>41/16 HANGER = .83' (SURFAC VALVE IS OPEN &amp; LOCKED )</p> <p>102 JTS 23/8 L-80 = 3240.81'</p> <p>2300 SICP 100 FTP</p> <p>6' 23/8 L-80 PUP JT = 6.12'</p> <p>150 JTS 23/8 J-55 = 4737.19'</p> <p>POBS W/ 1.875 X/N = 2.20'</p> <p>EOT @ 8002.15'</p> <p>TWTR = 5277 BBLS</p> <p>TWR = 900 BBLS</p> <p>TWLTR = 4377 BBLS</p> <p>315 JTS DELIVERED 150 J-55, 165 L-80</p> <p>252 LANDED</p> <p>63 TO RETURN L-80</p>
	17:00 - 17:00	0.00	DRLOUT	50				<p>WELL TURNED TO SALES @ 1745 HR ON 5/3/2013.</p> <p>1600 MCFD, 1560 BWPD, FCP 2300#, FTP 1700#, 20/64" CK.</p>



## FORMATION TOP DETAILS

ADT Well Number: 43047520930000  
 Project: UTAH - UTM (feet), NAD27, Zone 12N  
 Site: UINTAH\_BONANZA 1023-5D PAD  
 Well: BONANZA 1023-5D2DS  
 Wellbore: BONANZA 1023-5D2DS  
 Design: BONANZA 1023-5D2DS (wp01)  
 Latitude: 39.983865  
 Longitude: -109.357607  
 GL: 5238.00  
 KB: XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)

TVDPath	MDPath	Formation
1135.00	1136.47	GREEN RIVER
1504.00	1505.51	BIRDS NEST
2009.00	2010.53	MAHOGANY MARKER
4300.00	4301.83	WASATCH
4900.00	4901.86	INTERCEPT TARGET
6412.00	6413.90	MESAVERDE
8577.00	8578.94	SEGO

## WELL DETAILS: BONANZA 1023-5D2DS

+N/-S	+E/-W	Ground Level:	2528.00	Latitude	Longitude
0.00	14524406.97	North	2100501.82	39.983865	-109.357607

## CASING DETAILS

TVD	MD	Name	Size
2495.46	2497.00	8-5/8	8-5/8



Azimuths to True North

Magnetic North: 10.85°

Magnetic Field

Strength: 52210.0nT

Dip Angle: 65.85°

Date: 9/26/2012

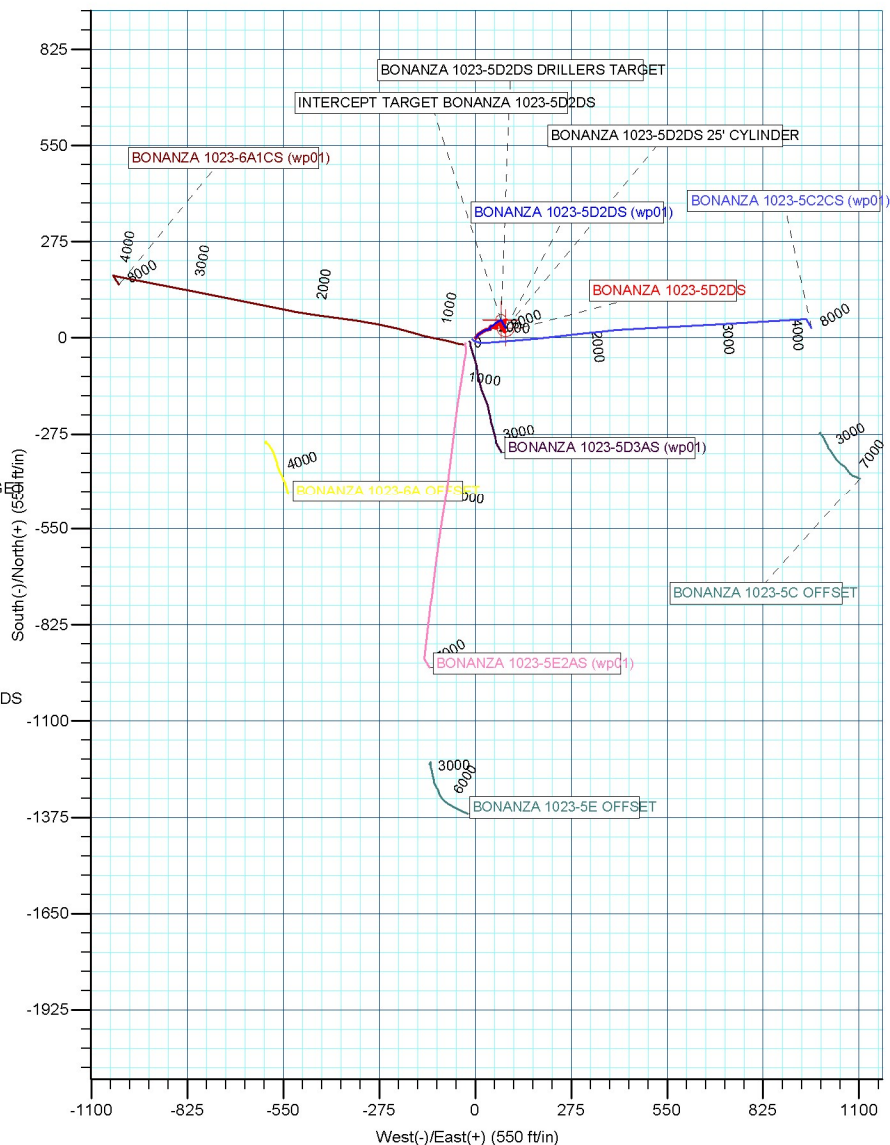
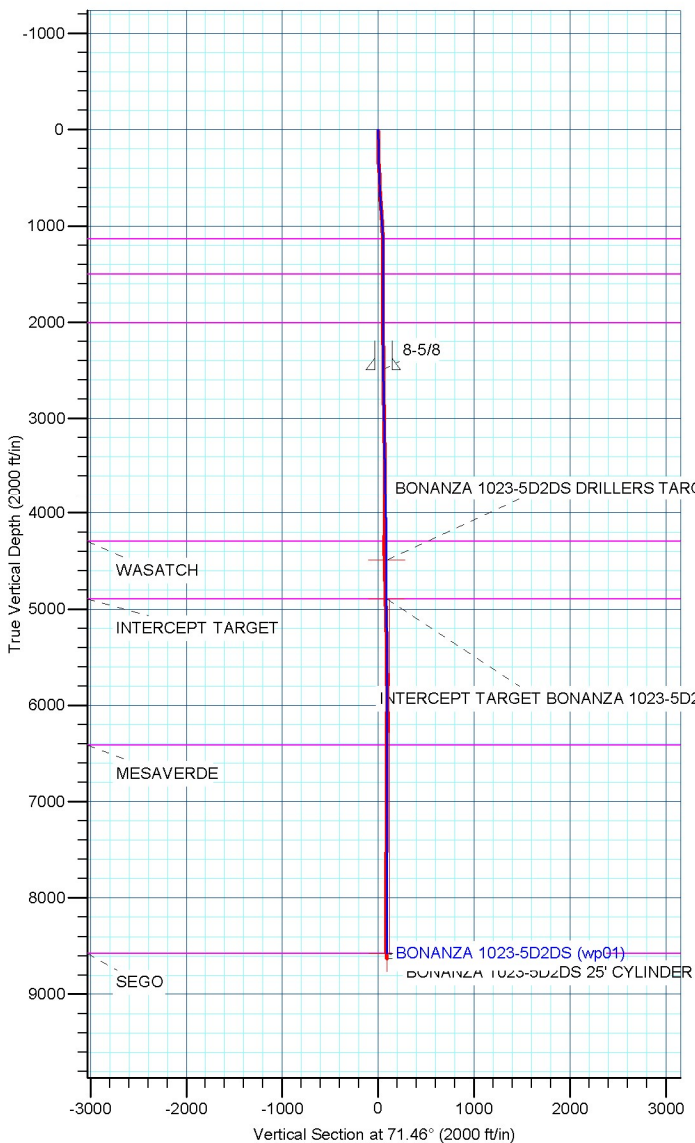
Model: IGRF2010

## DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	Easting	Latitude	Longitude	Shape
BONANZA 1023-5D2DS DRILLERS TARGET	4489.00	52.14	73.86	14524460.46	2100574.71	39.984008	-109.357343	Circle (Radius: 15.00)
INTERCEPT TARGET BONANZA 1023-5D2DS	4900.00	50.15	74.98	14524458.49	2100575.87	39.984003	-109.357339	Point
BONANZA 1023-5D2DS 25' CYLINDER	8577.00	29.14	86.86	14524437.70	2100588.13	39.983945	-109.357297	Circle (Radius: 25.00)

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2473.00	0.35	199.65	2471.46	32.46	44.73	0.00	0.00	52.73
2539.71	1.04	55.76	2538.16	32.61	45.16	2.00	-152.78	53.18
4431.70	1.04	55.76	4429.84	51.84	73.42	0.00	0.00	86.09
4490.86	0.00	0.00	4489.00	52.14	73.86	1.75	180.00	86.61
4616.21	0.38	150.53	4614.36	51.78	74.06	0.30	150.53	86.69
8578.94	0.38	150.53	8577.00	29.14	86.86	0.00	0.00	91.62



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# **US ROCKIES REGION PLANNING**

**UTAH - UTM (feet), NAD27, Zone 12N**

**UINTAH\_BONANZA 1023-5D PAD**

**BONANZA 1023-5D2DS**

**BONANZA 1023-5D2DS**

**Design: BONANZA 1023-5D2DS**

## **Standard Survey Report**

**04 December, 2012**



## Andarko Petroleum Corporation

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5D2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5D2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5D2DS	<b>Database:</b>	edmp

<b>Project</b>	UTAH - UTM (feet), NAD27, Zone 12N		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

Site		UINTAH_BONANZA 1023-5D PAD							
Site Position:		Northing:	14,524,386.67	usft	Latitude:	39.983811			
From:	Lat/Long	Easting:	2,100,467.44	usft	Longitude:	-109.357731			
Position Uncertainty:		0.00	ft	Slot Radius:	13-3/16	"	Grid Convergence:	1.06	°

Well	BONANZA 1023-5D2DS					
Well Position	+N/-S	0.00 ft	Northing:	14,524,406.97 usft	Latitude:	39.983865
	+E/-W	0.00 ft	Easting:	2,100,501.82 usft	Longitude:	-109.357607
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,238.00 ft

<b>Wellbore</b>	BONANZA 1023-5D2DS				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/26/2012	10.85	65.85	52,210

<b>Design</b>	BONANZA 1023-5D2DS				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	11.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	11.00	0.00	0.00	78.86	

<b>Survey Program</b>	<b>Date</b>	12/4/2012			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
188.00	2,473.00	Survey #1 (BONANZA 1023-5D2DS)	MWD	MWD - STANDARD	
2,552.00	8,632.00	Survey #2 (BONANZA 1023-5D2DS)	MWD	MWD - STANDARD	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
11.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	
188.00	0.62	79.76	188.00	0.17	0.94	0.96	0.35	0.35	0.00	
272.00	1.41	52.69	271.98	0.88	2.21	2.34	1.08	0.94	-32.23	
354.00	2.20	43.73	353.94	2.63	4.10	4.53	1.02	0.96	-10.93	
445.00	2.46	32.30	444.87	5.54	6.35	7.30	0.58	0.29	-12.56	
535.00	2.73	37.66	534.77	8.87	8.69	10.24	0.40	0.30	5.96	
625.00	3.34	48.91	624.65	12.29	11.98	14.13	0.94	0.68	12.50	
715.00	4.04	53.92	714.46	15.88	16.52	19.28	0.86	0.78	5.57	



## Andarko Petroleum Corporation

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5D2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5D2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5D2DS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
805.00	4.84	61.13	804.19	19.58	22.41	25.77	1.08	0.89	8.01
895.00	4.48	74.46	893.90	22.35	29.12	32.89	1.26	-0.40	14.81
985.00	3.61	75.90	983.67	23.99	35.25	39.22	0.97	-0.97	1.60
1,075.00	2.11	84.95	1,073.56	24.82	39.65	43.70	1.74	-1.67	10.06
1,165.00	0.88	68.51	1,163.53	25.22	41.94	46.03	1.43	-1.37	-18.27
1,255.00	0.70	346.95	1,253.52	26.01	42.46	46.69	1.16	-0.20	-90.62
1,345.00	0.85	339.90	1,343.51	27.17	42.11	46.57	0.20	0.17	-7.83
1,435.00	0.88	3.30	1,433.50	28.49	41.92	46.63	0.39	0.03	26.00
1,525.00	1.06	22.55	1,523.49	29.95	42.28	47.27	0.41	0.20	21.39
1,615.00	0.79	61.66	1,613.48	31.01	43.14	48.32	0.74	-0.30	43.46
1,705.00	0.44	43.73	1,703.47	31.56	43.93	49.20	0.44	-0.39	-19.92
1,795.00	0.26	59.55	1,793.47	31.91	44.34	49.67	0.23	-0.20	17.58
1,885.00	0.18	155.52	1,883.47	31.88	44.58	49.90	0.37	-0.09	106.63
1,975.00	0.18	0.75	1,973.47	31.90	44.64	49.96	0.39	0.00	-171.97
2,065.00	0.62	4.88	2,063.47	32.52	44.68	50.12	0.49	0.49	4.59
2,155.00	0.26	8.13	2,153.46	33.21	44.75	50.33	0.40	-0.40	3.61
2,245.00	0.26	36.96	2,243.46	33.58	44.90	50.55	0.14	0.00	32.03
2,335.00	0.35	203.16	2,333.46	33.49	44.92	50.54	0.67	0.10	184.67
2,425.00	0.53	183.12	2,423.46	32.82	44.79	50.29	0.26	0.20	-22.27
2,473.00	0.35	199.65	2,471.46	32.46	44.73	50.16	0.46	-0.38	34.44
TIE ON									
2,552.00	1.18	199.68	2,550.45	31.46	44.37	49.62	1.05	1.05	0.04
FIRST MWD SURVEY									
2,641.00	1.21	91.78	2,639.44	30.57	45.00	50.06	2.17	0.03	-121.24
2,731.00	1.19	99.50	2,729.42	30.39	46.87	51.86	0.18	-0.02	8.58
2,820.00	1.19	93.37	2,818.40	30.18	48.71	53.62	0.14	0.00	-6.89
2,909.00	1.25	102.37	2,907.38	29.92	50.58	55.41	0.23	0.07	10.11
2,997.00	1.25	84.75	2,995.36	29.80	52.47	57.24	0.44	0.00	-20.02
3,086.00	1.25	94.75	3,084.34	29.81	54.41	59.14	0.24	0.00	11.24
3,175.00	0.63	59.12	3,173.33	29.98	55.79	60.54	0.93	-0.70	-40.03
3,265.00	0.44	91.50	3,263.32	30.23	56.56	61.34	0.39	-0.21	35.98
3,354.00	0.81	111.12	3,352.32	29.99	57.49	62.20	0.47	0.42	22.04
3,442.00	0.50	99.25	3,440.31	29.70	58.45	63.09	0.38	-0.35	-13.49
3,532.00	0.31	153.12	3,530.31	29.42	58.95	63.52	0.45	-0.21	59.86
3,621.00	0.69	31.37	3,619.31	29.67	59.34	63.95	1.00	0.43	-136.80
3,708.00	0.38	90.37	3,706.31	30.11	59.90	64.59	0.68	-0.36	67.82
3,796.00	0.69	62.25	3,794.30	30.36	60.66	65.38	0.45	0.35	-31.95
3,884.00	0.50	96.37	3,882.30	30.56	61.51	66.26	0.45	-0.22	38.77
3,976.00	0.38	190.12	3,974.30	30.22	61.86	66.53	0.70	-0.13	101.90
4,063.00	0.75	193.37	4,061.29	29.38	61.67	66.19	0.43	0.43	3.74
4,151.00	1.44	281.25	4,149.28	29.03	60.46	64.93	1.82	0.78	99.86
4,239.00	1.38	268.87	4,237.25	29.23	58.31	62.86	0.35	-0.07	-14.07



## Andarko Petroleum Corporation

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5D2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5D2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5D2DS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,327.00	0.31	340.25	4,325.24	29.43	57.17	61.78	1.49	-1.22	81.11
4,416.00	0.13	79.00	4,414.24	29.68	57.19	61.85	0.40	-0.20	110.96
4,504.00	2.19	34.00	4,502.22	31.09	58.23	63.14	2.39	2.34	-51.14
4,592.00	1.75	38.62	4,590.17	33.53	60.01	65.36	0.53	-0.50	5.25
4,681.00	1.69	36.75	4,679.13	35.65	61.64	67.37	0.09	-0.07	-2.10
4,770.00	1.88	42.25	4,768.09	37.78	63.41	69.51	0.29	0.21	6.18
4,860.00	1.69	38.87	4,858.04	39.91	65.23	71.71	0.24	-0.21	-3.76
4,947.00	1.38	48.37	4,945.01	41.60	66.82	73.60	0.46	-0.36	10.92
5,051.00	1.31	52.87	5,048.98	43.15	68.70	75.75	0.12	-0.07	4.33
5,138.00	1.25	67.37	5,135.96	44.12	70.37	77.57	0.38	-0.07	16.67
5,228.00	1.06	76.87	5,225.94	44.68	72.09	79.36	0.30	-0.21	10.56
5,317.00	0.94	70.12	5,314.93	45.12	73.58	80.91	0.19	-0.13	-7.58
5,407.00	1.13	73.00	5,404.91	45.63	75.12	82.52	0.22	0.21	3.20
5,496.00	1.06	86.25	5,493.90	45.94	76.78	84.21	0.29	-0.08	14.89
5,584.00	1.13	92.37	5,581.88	45.96	78.46	85.86	0.15	0.08	6.95
5,671.00	1.00	103.37	5,668.87	45.75	80.06	87.39	0.28	-0.15	12.64
5,761.00	1.00	98.87	5,758.85	45.44	81.60	88.84	0.09	0.00	-5.00
5,848.00	1.13	111.75	5,845.84	45.01	83.14	90.27	0.31	0.15	14.80
5,937.00	0.25	201.25	5,934.83	44.50	83.89	90.91	1.30	-0.99	100.56
6,024.00	0.19	147.00	6,021.83	44.20	83.90	90.86	0.24	-0.07	-62.36
6,112.00	0.50	157.37	6,109.83	43.73	84.13	90.99	0.36	0.35	11.78
6,198.00	0.88	264.37	6,195.83	43.32	83.61	90.41	1.32	0.44	124.42
6,286.00	0.69	243.50	6,283.82	43.01	82.47	89.22	0.39	-0.22	-23.72
6,375.00	0.81	234.75	6,372.81	42.41	81.47	88.13	0.19	0.13	-9.83
6,463.00	0.75	213.62	6,460.80	41.57	80.65	87.16	0.33	-0.07	-24.01
6,551.00	0.31	307.37	6,548.80	41.24	80.14	86.59	0.94	-0.50	106.53
6,639.00	0.25	220.62	6,636.80	41.24	79.82	86.29	0.44	-0.07	-98.58
6,728.00	0.56	168.00	6,725.80	40.66	79.79	86.14	0.51	0.35	-59.12
6,816.00	0.06	19.00	6,813.80	40.29	79.89	86.17	0.70	-0.57	-169.32
6,903.00	0.06	9.00	6,900.80	40.37	79.91	86.21	0.01	0.00	-11.49
6,991.00	0.13	296.75	6,988.80	40.46	79.83	86.15	0.14	0.08	-82.10
7,079.00	0.56	249.00	7,076.79	40.36	79.34	85.64	0.55	0.49	-54.26
7,167.00	0.56	287.50	7,164.79	40.33	78.53	84.84	0.42	0.00	43.75
7,257.00	1.06	303.25	7,254.78	40.92	77.41	83.86	0.60	0.56	17.50
7,345.00	0.88	301.37	7,342.77	41.72	76.16	82.78	0.21	-0.20	-2.14
7,434.00	0.56	256.75	7,431.76	41.97	75.15	81.84	0.70	-0.36	-50.13
7,524.00	0.50	220.12	7,521.76	41.57	74.47	81.10	0.38	-0.07	-40.70
7,614.00	0.75	199.37	7,611.75	40.72	74.02	80.49	0.37	0.28	-23.06
7,703.00	1.16	177.41	7,700.74	39.27	73.87	80.06	0.61	0.46	-24.67
7,792.00	1.00	178.75	7,789.72	37.59	73.92	79.79	0.18	-0.18	1.51
7,881.00	1.44	167.50	7,878.70	35.72	74.18	79.69	0.56	0.49	-12.64
7,970.00	1.71	159.83	7,967.67	33.38	74.88	79.92	0.38	0.30	-8.62



## Andarko Petroleum Corporation

## Survey Report

<b>Company:</b>	US ROCKIES REGION PLANNING	<b>Local Co-ordinate Reference:</b>	Well BONANZA 1023-5D2DS
<b>Project:</b>	UTAH - UTM (feet), NAD27, Zone 12N	<b>TVD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Site:</b>	UINTAH_BONANZA 1023-5D PAD	<b>MD Reference:</b>	XTREME 12 15'RKB+GL @ 5253.00ft (XTREME 12)
<b>Well:</b>	BONANZA 1023-5D2DS	<b>North Reference:</b>	True
<b>Wellbore:</b>	BONANZA 1023-5D2DS	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	BONANZA 1023-5D2DS	<b>Database:</b>	edmp

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,060.00	1.81	156.87	8,057.63	30.82	75.90	80.43	0.15	0.11	-3.29
8,147.00	1.88	146.00	8,144.58	28.37	77.24	81.27	0.41	0.08	-12.49
8,235.00	1.80	137.41	8,232.54	26.16	78.99	82.55	0.33	-0.09	-9.76
8,323.00	1.58	138.18	8,320.50	24.23	80.73	83.89	0.25	-0.25	0.88
8,412.00	1.69	139.50	8,409.46	22.32	82.40	85.16	0.13	0.12	1.48
8,500.00	1.50	150.75	8,497.43	20.33	83.81	86.15	0.42	-0.22	12.78
8,582.00	1.77	155.45	8,579.40	18.24	84.86	86.78	0.37	0.33	5.73
LAST MWD SURVEY									
8,632.00	1.77	155.45	8,629.37	16.84	85.50	87.14	0.00	0.00	0.00
PROJECTION TO TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,473.00	2,471.46	32.46	44.73	TIE ON
2,552.00	2,550.45	31.46	44.37	FIRST MWD SURVEY
8,582.00	8,579.40	18.24	84.86	LAST MWD SURVEY
8,632.00	8,629.37	16.84	85.50	PROJECTION TO TD

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/24/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator conducted the following workover/wellbore cleanout on the subject well on 1/24/2014. Please see the attached chronological well history for details. Thank you.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          February 21, 2014</b>		
<b>NAME (PLEASE PRINT)</b> Teena Paulo		<b>PHONE NUMBER</b> 720 929-6236
<b>SIGNATURE</b> N/A		<b>TITLE</b> Staff Regulatory Specialist
<b>DATE</b> 2/20/2014		



**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: ROCKY MOUNTAIN WELL SERVICE  
3/3

Event: WELL WORK EXPENSE

Start Date: 1/23/2014

End Date: 1/24/2014

Active Datum: RKB @5,254.00usft (above Mean Sea  
Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/23/2014	13:00 - 16:00	3.00	MAINT	30	A	P		ROAD RIG FROM BONANZA 1023-6F TO BONANZA 1023-5D2DS, MIRU, 1600# SICP
1/24/2014	7:00 - 7:15	0.25	MAINT	48		P		HSM, JSA
	7:15 - 8:30	1.25	MAINT	30	A	P		250# FCP, CONTROL WELL W/ 40 BBLS T-MAC, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP
	8:30 - 13:30	5.00	MAINT	31	I	P		P/U TBG, TIH W/ 18 JTS, TAG PBTD @ 8568', MIRU SCAN TECH, TOOH & SCAN 2-3/8" TBG, LD BTM JOINT DUE TO NO DRIFT & XN WAS PLUGED W/ BARIUM, HAD LIGHT INTERNAL SCALE THROUGH OUT TBG STRING
	13:30 - 16:30	3.00	MAINT	31	I	P		M/U LSN, TIH W/ 2-3/8" TBG, LAND TBG ON HANGER W/ 252 JTS 2-3/8" TBG, BROACH TBG TO LSN W/ 1.910 BROACH
	16:30 - 17:30	1.00	MAINT	30	C	P		RD FLOOR & TBG EQUIP, ND BOP'S, NU WH, SWI, DRAIN PUMP & LINES, SDFWE
								KB 15'
								HANGER .83'
								103 JTS 2-3/8" L-80 TBG 3272.51'
								6' PUP JNT 2-3/8" L-80 6.12'
								149 JTS 2-3/8" J-55 TBG 4705.62'
								LSN 1.33'
								EOT @ 8001.41'
								TWLTR 100 BBLS



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047520930000			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>  <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/19/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION          OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  The operator requests authorization to recomplete the subject well in the Wasatch/Mesaverde formation. Please see the attached procedure. This is a courtesy copy on behalf of the Natural Buttes Unit.					
<div style="text-align: right;"> <b>Accepted by the</b>  <b>Utah Division of</b>  <b>Oil, Gas and Mining</b>   <b>Date:</b> February 25, 2014  <b>By:</b> <u>Derek Quist</u> </div>					
<b>NAME (PLEASE PRINT)</b> Joel Malefyt		<b>PHONE NUMBER</b> 720 929-6828			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
		<b>DATE</b> 2/18/2014			





# **Greater Natural Buttes Unit**

**BONANZA 1023-5D2DS  
RE-COMPLETIONS PROCEDURE  
BONANZA 1023-5D PAD  
FIELD ID: RED WELL**

**DATE: 1/21/2014  
AFE#:  
API#: 4304752093  
USER ID: SNT239 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Jamie Berghorn, Denver, CO  
(720) 929-6230 (Office)  
(303) 909-3417 (Cell)**

**REMEMBER SAFETY FIRST!**



**Name:** **BONANZA 1023-5D2DS**  
**Location:** **SE NW NW NW Sec 5 T10S R23E**  
**LAT:** 39.983831 **LONG:** -109.358286 **COORDINATE:** NAD83 (*Surface Location*)  
**Uintah County, UT**

**ELEVATIONS:** 5,239' GL 5,254' KB *Frac Registry TVD: 8,629'*

**TOTAL DEPTH:** 8,632' **PBTD:** 8,581'  
**SURFACE CASING:** 8 5/8", 28# J-55 8RD @ 2,508'  
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 DQX @ 5,033'  
 4 1/2", 11.6#, I-80 8RD LTC 8,581'  
 4 1/2", 11.6#, I-80 8RD 8,628'  
 Marker Joint **6,356-6,376'**

**TUBULAR PROPERTIES:**

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

**TOPS:**

1,065' Green River Top  
 1,460' Bird's Nest Top  
 2,021' Mahogany Top  
 4,319' Wasatch Top  
 6,434' Mesaverde Top  
 \*Based on latest geological interpretation

**BOTTOMS:**

6,434' Wasatch Bottom  
 8,632' Mesaverde Bottom (TD)

**T.O.C.** @ 710'

\*\*Based on latest interpretation of CBL

**GENERAL NOTES:**

- **Please note that:**
  - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
  - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **14** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Baker's GRlog dated **12/13/2012**.
- **9** fracturing stages required for coverage.
- Hydraulic isolation estimated at **980'** based upon Baker's CBL dated 12/13/2012.
- Procedure calls for **10** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.



- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Mesaverde 1 ppg; Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing – design will over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1, 3-6**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

#### Existing Perforations:

<b>PERFORATIONS</b>					
<b>Formation</b>	<b>Zone</b>	<b>Top</b>	<b>Btm</b>	<b>spf</b>	<b>Shots</b>
MESAVERDE		7589	7590	3	3
MESAVERDE		7640	7641	3	3
MESAVERDE		7667	7668	3	3
MESAVERDE		7696	7697	3	3
MESAVERDE		7729	7730	3	3
MESAVERDE		7763	7764	3	3
MESAVERDE		7789	7790	3	3
MESAVERDE		7825	7826	4	4
MESAVERDE		7849	7850	4	4
MESAVERDE		7905	7906	4	4
MESAVERDE		7925	7926	4	4
MESAVERDE		7957	7958	4	4
MESAVERDE		8016	8017	3	3
MESAVERDE		8085	8086	3	3
MESAVERDE		8092	8093	3	3
MESAVERDE		8109	8110	3	3
MESAVERDE		8155	8156	3	3
MESAVERDE		8176	8177	3	3
MESAVERDE		8196	8197	3	3
MESAVERDE		8279	8280	3	3
MESAVERDE		8292	8293	3	3
MESAVERDE		8362	8363	3	3
MESAVERDE		8487	8488	3	3
MESAVERDE		8556	8558	3	6



**Relevant History:**

04/29/2013: Originally completed in Mesaverde formation (4 stages) with ~ 215,736 gallons of Slickwater, 107,291 lbs of 30/50 Ottawa Sand sand

11/8/2013: Last slickline report:

**JOB DESCRIPTION**

RIH w/ Scratcher to 7977' Tried to beat through. RIH w/ Sample Bailer to 7977' Collected sample of barium. Called in going to drop Shear master floating spring.

05/03/2013: Tubing Currently Landed @~8002'

1/24/2014: WO LD last joint of tubing @ 8001' (180) with LSN

**H2S History:**

Location Name	WINS No. (wel...	Production Date	▲	Gas (avg mcf/...	Water (avg bb...	Oil (avg bbl/day)	Avg. BOE/day	LGR (bbl/Mmcf)	Max H2S Sep.	Separator H2.	Tank H2S (lbs)	Production Year
BONANZA 1023-S02DS	C8761	4/30/2013		0.00	0.00	0.00	0.00					2013
BONANZA 1023-S02DS	C8761	5/31/2013		1471.61	6.68	12.10	257.37	12.76				2013
BONANZA 1023-S02DS	C8761	6/30/2013		934.67	0.00	12.53	168.31	13.41				2013
BONANZA 1023-S02DS	C8761	7/31/2013		603.90	17.19	3.94	104.59	34.99	0.00	0.00	0.00	2013
BONANZA 1023-S02DS	C8761	8/31/2013		426.32	23.32	6.10	77.15	69.01				2013
BONANZA 1023-S02DS	C8761	9/30/2013		300.73	7.23	4.87	54.99	40.23				2013
BONANZA 1023-S02DS	C8761	10/31/2013		312.29	14.65	1.68	53.73	52.27				2013
BONANZA 1023-S02DS	C8761	11/30/2013		240.20	13.90	2.03	42.07	66.33				2013
BONANZA 1023-S02DS	C8761	12/31/2013		191.26	9.84	3.23	35.10	68.31	0.00	0.00	0.00	2013



**PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, L-80 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7646' (50' below proposed CBP). Otherwise P/U a mill and C/O to 7646' (50' below proposed CBP).
4. Set 8000 psi CBP at ~ 7596'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.
6. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	7359	7360	3	3
MESAVERDE	7384	7385	3	3
MESAVERDE	7446	7447	3	3
MESAVERDE	7463	7464	3	3
MESAVERDE	7466	7467	3	3
MESAVERDE	7472	7473	3	3
MESAVERDE	7543	7544	3	3
MESAVERDE	7565	7566	3	3
7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7359' and trickle 250gal 15%HCL w/ scale inhibitor in flush .
8. Set 8000 psi CBP at ~7333'. Perf the following 3-1/8" gun, 19 gm, 0.40" hole:
 

Zone	From	To	spf	# of shots
MESAVERDE	7145	7146	3	3
MESAVERDE	7151	7152	3	3
MESAVERDE	7155	7156	3	3
MESAVERDE	7183	7184	3	3
MESAVERDE	7197	7198	3	3
MESAVERDE	7199	7200	3	3
MESAVERDE	7229	7230	3	3
MESAVERDE	7302	7303	3	3
9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7145' and trickle 250gal 15%HCL w/ scale inhibitor in flush.



10. Set 8000 psi CBP at ~6861'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	6654	6655	3	3
MESAVERDE	6698	6699	3	3
MESAVERDE	6728	6729	3	3
MESAVERDE	6733	6734	3	3
MESAVERDE	6752	6753	3	3
MESAVERDE	6765	6766	3	3
MESAVERDE	6813	6814	3	3
MESAVERDE	6847	6848	3	3

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6654' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

12. Set 8000 psi CBP at ~6620'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
MESAVERDE	6420	6421	3	3
MESAVERDE	6429	6430	3	3
MESAVERDE	6514	6515	3	3
MESAVERDE	6518	6519	3	3
MESAVERDE	6533	6534	3	3
MESAVERDE	6569	6570	3	3
MESAVERDE	6588	6590	3	6

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6420' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~6410'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	6189	6190	3	3
WASATCH	6211	6212	3	3
WASATCH	6252	6253	3	3
WASATCH	6276	6277	3	3
WASATCH	6378	6379	3	3
WASATCH	6385	6386	3	3
WASATCH	6390	6392	3	6

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6189' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

16. Set 8000 psi CBP at ~6177'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5933	5934	3	3
WASATCH	5962	5963	3	3
WASATCH	5971	5972	3	3
WASATCH	5990	5991	3	3
WASATCH	6038	6039	3	3
WASATCH	6123	6124	3	3
WASATCH	6145	6146	3	3
WASATCH	6151	6152	3	3



17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5933' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

18. Set 8000 psi CBP at ~5913'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5614	5616	3	6
WASATCH	5636	5638	3	6
WASATCH	5802	5804	3	6
WASATCH	5882	5883	3	3

19. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~5614' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

20. Set 8000 psi CBP at ~5546'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	5420	5422	3	6
WASATCH	5449	5450	3	3
WASATCH	5466	5467	3	3
WASATCH	5478	5480	3	6
WASATCH	5515	5516	3	3

21. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~5420' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

22. Set 8000 psi CBP at ~5176'. Perf the following with 3-1/8" gun, 19 gm, 0.40" hole:

Zone	From	To	spf	# of shots
WASATCH	4881	4882	3	3
WASATCH	4884	4885	3	3
WASATCH	4893	4896	3	9
WASATCH	5128	5129	3	3
WASATCH	5145	5146	3	3

23. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 9 on attached listing. Under-displace to ~4881' and flush only with recycled water.

24. Set 8000 psi CBP at ~4831'.

25. ND Frac Valves, NU and Test BOPs.

26. TIH with 3 7/8" bit, pump open sub, SN and tubing.

27. Drill 9 plugs and clean out to a depth of 7586' (~ 20' below bottom perfs). This well WILL NOT be commingled at this time.

28. Shift pump open bit sub and land tubing at 7329'. Flow back completion load. RDMO.

29. MIRU, POOH tbg and POBS. TIH with POBS.

30. Drill last plug @ 7596' clean out to PBTD at 8581'. Shear off bit and land tubing at ±8002'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar**



**days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**

31. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.
32. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Jamie Berghorn: 720/929-6230, 303/909-3417

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Brad Laney: 435/781-7031, 435/828-5469

Blair Corbett: 435/781-9714, 435/322-0119

Ben Smiley: 936/524-4231, 435/781-7010

Heath Pottmeyer: 740/525-3445, 435/781-9789

Anqi Yang: 435/828-6505, 435/781-7015

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222



Service Company Supplied Chemicals - Job Totals

Friction Reducer	70	gals @	0.3	GPT
Surfactant	235	gals @	1.0	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	2250	gals @	250	gal/stg
Iron Control for acid	11	gals @	5.0	GPT of acid
Surfactant for acid	5	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	14	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	117	gals pumped	0.5	GPT (see schedule)
Biocide	70	gals @	0.3	GPT

Acid Pickling and H2S Procedures (If Required)**\*\*PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**\*\* PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

\*\* As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form



Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTS ?	N
Days on Pad?	3
Wells on Pad?	5

Swabbing Days	3	E
Production Log	0	E
DFIT	0	E
GR only	Y	E
Low Scale	Y	E
Clay Stab.	N	E

er Number of swabbing days here for re completes  
er 1 If running a Production Log  
er Number of DFITs  
er Y if only Gamma Ray log was run  
er Y if a LOW concentration of Scale Inhibitor will be pumped  
er N if there will be NO Clay stabilizer

Stage	Zone	Perfs		Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
		Top, ft.	Bot. ft.															
1	MESAVERDE	7369	7360	3	Varied	Pre-Pad & Pump-in test			Slickwater	4,804	4,804	114	114					2
	MESAVERDE	7384	7385	3	0	ISIP and 5 min ISIP			Slickwater	3,029	7,833	72	187	15.0%	0.0%	0	0	2
	MESAVERDE	7446	7447	3	50	Slickwater Pad	0.25	0.625	Slickwater	5,722	13,556	136	323	28.3%	21.9%	2,503	2,503	3
	MESAVERDE	7463	7464	3	50	Slickwater Ramp	0	0	Slickwater	0	13,556	0	323	28.3%	0.0%	2,503	0	0
	MESAVERDE	7466	7467	3	50	SW Sweep	0.63	0.75	Slickwater	5,722	19,278	136	459	28.3%	34.4%	3,934	6,437	3
	MESAVERDE	7472	7473	3	50	Slickwater Ramp	0	0	Slickwater	0	19,278	0	459	28.3%	0.0%	0	6,437	3
	MESAVERDE	7543	7544	3	50	SW Sweep	0.25	0.75	Slickwater	5,722	25,000	136	595	28.3%	43.8%	5,007	11,444	3
	MESAVERDE	7565	7566	3	50	Slickwater Ramp	0.75	1	Slickwater	4,804	29,804	114	710			11,444	11,444	2
	MESAVERDE				50	Flush (4-1/2)												15
	MESAVERDE				ISDP and 5 min ISDP													
	MESAVERDE																	
2	MESAVERDE	7145	7146	3	14.2	<<< Above pump time (min)			Sand laden	20,196	20,196					1,303	738	26
	MESAVERDE	7151	7152	3	Varied	Pump-in test			Slickwater	0	0	0	0			738	lbs sand/ft	
	MESAVERDE	7155	7156	3	0	ISIP and 5 min ISIP	0.25	0.625	Slickwater	3,050	3,050	73	73	15.0%	0.0%	0	0	2
	MESAVERDE	7183	7184	3	50	Slickwater Pad	0	0	Slickwater	5,762	8,812	137	210	28.3%	21.9%	2,521	2,521	3
	MESAVERDE	7197	7198	3	50	SW Sweep	0.63	0.75	Slickwater	5,762	14,574	137	347	28.3%	0.0%	3,961	6,482	3
	MESAVERDE	7199	7200	3	50	Slickwater Ramp	0	0	Slickwater	0	14,574	0	347	28.3%	0.0%	0	6,482	0
	MESAVERDE	7229	7230	3	50	SW Sweep	0.25	0.75	Slickwater	5,762	20,336	137	484	28.3%	43.8%	5,042	11,524	3
	MESAVERDE	7302	7303	3	50	Slickwater Ramp	0.75	1	Slickwater	4,664	25,000	111	595			11,524	11,524	2
	MESAVERDE				50	Flush (4-1/2)												13
	MESAVERDE				ISDP and 5 min ISDP													
	MESAVERDE																	
3	MESAVERDE	6654	6655	3	11.9	<<< Above pump time (min)			Sand laden	20,336	20,336					2,905	1,646	284
	MESAVERDE	6698	6699	3	Varied	Pump-in test			Slickwater	0	0	0	0			2,905	lbs sand/ft	
	MESAVERDE	6728	6729	3	0	ISIP and 5 min ISIP	0.25	0.625	Slickwater	3,098	3,098	74	74	15.0%	0.0%	0	0	2
	MESAVERDE	6752	6753	3	50	Slickwater Pad	0	0	Slickwater	5,853	8,951	139	213	28.3%	21.9%	2,561	2,561	3
	MESAVERDE	6766	6767	3	50	SW Sweep	0.63	0.75	Slickwater	5,853	14,804	139	352	28.3%	0.0%	4,024	6,584	3
	MESAVERDE	6813	6814	3	50	Slickwater Ramp	0	0	Slickwater	0	14,804	0	352	28.3%	34.4%	0	6,584	0
	MESAVERDE	6847	6848	3	50	SW Sweep	0.25	0.75	Slickwater	5,853	20,656	139	492	28.3%	0.0%	0	6,584	0
	MESAVERDE				50	Slickwater Ramp	0.75	1	Slickwater	4,344	25,000	103	595			5,121	11,705	3
	MESAVERDE				50	Flush (4-1/2)												2
	MESAVERDE				ISDP and 5 min ISDP													13
	MESAVERDE																	



11



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**Bonanza 1023-5D2DS**  
**Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	MESAVERDE	7359	7360	3	3	7359	to	7566
	MESAVERDE	7384	7385	3	3			
	MESAVERDE	7446	7447	3	3			
	MESAVERDE	7463	7464	3	3			
	MESAVERDE	7466	7467	3	3			
	MESAVERDE	7472	7473	3	3			
	MESAVERDE	7543	7544	3	3			
	MESAVERDE	7565	7566	3	3			
	# of Perfs/stage				24	CBP DEPTH	7,333	
2	MESAVERDE	7145	7146	3	3	7145	to	7304
	MESAVERDE	7151	7152	3	3			
	MESAVERDE	7155	7156	3	3			
	MESAVERDE	7183	7184	3	3			
	MESAVERDE	7197	7198	3	3			
	MESAVERDE	7199	7200	3	3			
	MESAVERDE	7229	7230	3	3			
	MESAVERDE	7302	7303	3	3			
	# of Perfs/stage				24	CBP DEPTH	6,861	
3	MESAVERDE	6654	6655	3	3	6654	to	6849
	MESAVERDE	6698	6699	3	3			
	MESAVERDE	6728	6729	3	3			
	MESAVERDE	6733	6734	3	3			
	MESAVERDE	6752	6753	3	3			
	MESAVERDE	6765	6766	3	3			
	MESAVERDE	6813	6814	3	3			
	MESAVERDE	6847	6848	3	3			
	# of Perfs/stage				24	CBP DEPTH	6,620	
4	MESAVERDE	6420	6421	3	3	6420	to	6599
	MESAVERDE	6429	6430	3	3			
	MESAVERDE	6514	6515	3	3			
	MESAVERDE	6518	6519	3	3			
	MESAVERDE	6533	6534	3	3			
	MESAVERDE	6569	6570	3	3			
	MESAVERDE	6588	6590	3	6			
	MESAVERDE							
	# of Perfs/stage				24	CBP DEPTH	6,410	
5	WASATCH	6189	6190	3	3	6189	to	6393
	WASATCH	6201	6202	3	3			
	WASATCH	6252	6253	3	3			
	WASATCH	6276	6277	3	3			
	WASATCH	6378	6379	3	3			
	WASATCH	6385	6386	3	3			
	WASATCH	6390	6392	3	6			
	WASATCH							
	# of Perfs/stage				24	CBP DEPTH	6,177	



Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
6	WASATCH	5933	5934	3	3	5933	to	6152
	WASATCH	5962	5963	3	3			
	WASATCH	5971	5972	3	3			
	WASATCH	5990	5991	3	3			
	WASATCH	6038	6039	3	3			
	WASATCH	6123	6124	3	3			
	WASATCH	6145	6146	3	3			
	WASATCH	6151	6152	3	3			
	# of Perfs/stage				24	CBP DEPTH	5,913	
7	WASATCH	5614	5616	3	6	5614	to	5883
	WASATCH	5636	5638	3	6			
	WASATCH	5802	5804	3	6			
	WASATCH	5882	5883	3	3			
	WASATCH							
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				21	CBP DEPTH	5,546	
8	WASATCH	5420	5422	3	6	5420	to	5517
	WASATCH	5449	5450	3	3			
	WASATCH	5466	5467	3	3			
	WASATCH	5478	5480	3	6			
	WASATCH	5515	5516	3	3			
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				21	CBP DEPTH	5,176	
9	WASATCH	4881	4882	3	3	4881	to	5146
	WASATCH	4884	4885	3	3			
	WASATCH	4893	4896	3	9			
	WASATCH	5128	5129	3	3			
	WASATCH	5145	5146	3	3			
	WASATCH							
	WASATCH							
	WASATCH							
	# of Perfs/stage				21	CBP DEPTH	4,831	
Totals					207	Total Pay		155.0



BONANZA	1023-5D2DS										
MD	TVD	EW	NS	INC	AZI	MD	TVD	EW	NS	INC	AZI
11	11	0	0	0	0	4416	4414.24	57.19	29.68	0.13	79
188	188	0.94	0.17	0.62	79.76	4504	4502.22	58.23	31.09	2.19	34
272	271.98	2.21	0.88	1.41	52.69	4592	4590.17	60.01	33.53	1.75	38.62
354	353.94	4.1	2.63	2.2	43.73	4681	4679.13	61.64	35.65	1.69	36.75
445	444.87	6.35	5.54	2.46	32.3	4770	4768.09	63.41	37.78	1.88	42.25
535	534.77	8.69	8.87	2.73	37.66	4860	4858.04	65.23	39.91	1.69	38.87
625	624.65	11.98	12.29	3.34	48.91	4947	4945.01	66.82	41.6	1.38	48.37
715	714.46	16.52	15.88	4.04	53.92	5051	5048.98	68.7	43.15	1.31	52.87
805	804.19	22.41	19.58	4.84	61.13	5138	5135.96	70.37	44.12	1.25	67.37
895	893.9	29.12	22.35	4.48	74.46	5228	5225.94	72.09	44.68	1.06	76.87
985	983.67	35.25	23.99	3.61	75.9	5317	5314.93	73.58	45.12	0.94	70.12
1075	1073.56	39.65	24.82	2.11	84.95	5407	5404.91	75.12	45.63	1.13	73
1165	1163.53	41.94	25.22	0.88	68.51	5496	5493.9	76.78	45.94	1.06	86.25
1255	1253.52	42.46	26.01	0.7	346.95	5584	5581.88	78.46	45.96	1.13	92.37
1345	1343.51	42.11	27.17	0.85	339.9	5671	5668.87	80.06	45.75	1	103.37
1435	1433.5	41.92	28.49	0.88	3.3	5761	5758.85	81.6	45.44	1	98.87
1525	1523.49	42.28	29.95	1.06	22.55	5848	5845.84	83.14	45.01	1.13	111.75
1615	1613.48	43.14	31.01	0.79	61.66	5937	5934.83	83.89	44.5	0.25	201.25
1705	1703.47	43.93	31.56	0.44	43.73	6024	6021.83	83.9	44.2	0.19	147
1795	1793.47	44.34	31.91	0.26	59.55	6112	6109.83	84.13	43.73	0.5	157.37
1885	1883.47	44.58	31.88	0.18	155.52	6198	6195.83	83.61	43.32	0.88	264.37
1975	1973.47	44.64	31.9	0.18	0.75	6286	6283.82	82.47	43.01	0.69	243.5
2065	2063.47	44.68	32.52	0.62	4.88	6375	6372.81	81.47	42.41	0.81	234.75
2155	2153.46	44.75	33.21	0.26	8.13	6463	6460.8	80.65	41.57	0.75	213.62
2245	2243.46	44.9	33.58	0.26	36.96	6551	6548.8	80.14	41.24	0.31	307.37
2335	2333.46	44.92	33.49	0.35	203.16	6639	6636.8	79.82	41.24	0.25	220.62
2425	2423.46	44.79	32.82	0.53	183.12	6728	6725.8	79.79	40.66	0.56	168
2473	2471.46	44.73	32.46	0.35	199.65	6816	6813.8	79.89	40.29	0.06	19
2552	2550.45	44.37	31.46	1.18	199.68	6903	6900.8	79.91	40.37	0.06	9
2641	2639.44	45	30.57	1.21	91.78	6991	6988.8	79.83	40.46	0.13	296.75
2731	2729.42	46.87	30.39	1.19	99.5	7079	7076.79	79.34	40.36	0.56	249
2820	2818.4	48.71	30.18	1.19	93.37	7167	7164.79	78.53	40.33	0.56	287.5
2909	2907.38	50.58	29.92	1.25	102.37	7257	7254.78	77.41	40.92	1.06	303.25
2997	2995.36	52.47	29.8	1.25	84.75	7345	7342.77	76.16	41.72	0.88	301.37
3086	3084.34	54.41	29.81	1.25	94.75	7434	7431.76	75.15	41.97	0.56	256.75
3175	3173.33	55.79	29.98	0.63	59.12	7524	7521.76	74.47	41.57	0.5	220.12
3265	3263.32	56.56	30.23	0.44	91.5	7614	7611.75	74.02	40.72	0.75	199.37
3354	3352.32	57.49	29.99	0.81	111.12	7703	7700.74	73.87	39.27	1.16	177.41
3442	3440.31	58.45	29.7	0.5	99.25	7792	7789.72	73.92	37.59	1	178.75
3532	3530.31	58.95	29.42	0.31	153.12	7881	7878.7	74.18	35.72	1.44	167.5
3621	3619.31	59.34	29.67	0.69	31.37	7970	7967.67	74.88	33.38	1.71	159.83
3708	3706.31	59.9	30.11	0.38	90.37	8060	8057.63	75.9	30.82	1.81	156.87
3796	3794.3	60.66	30.36	0.69	62.25	8147	8144.58	77.24	28.37	1.88	146
3884	3882.3	61.51	30.56	0.5	96.37	8235	8232.54	78.99	26.16	1.8	137.41
3976	3974.3	61.86	30.22	0.38	190.12	8323	8320.5	80.73	24.23	1.58	138.18
4063	4061.29	61.67	29.38	0.75	193.37	8412	8409.46	82.4	22.32	1.69	139.5
4151	4149.28	60.46	29.03	1.44	281.25	8500	8497.43	83.81	20.33	1.5	150.75
4239	4237.25	58.31	29.23	1.38	268.87	8582	8579.4	84.86	18.24	1.77	155.45
4327	4325.24	57.17	29.43	0.31	340.25	8632	8629.37	85.5	16.84	1.77	155.45



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/2/2014	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input checked="" type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 04/02/2014 FOLLOWING A RECOMPLETE. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL RECOMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> April 08, 2014		
<b>NAME (PLEASE PRINT)</b> Teena Paulo		<b>PHONE NUMBER</b> 720 929-6236
<b>SIGNATURE</b> N/A		<b>TITLE</b> Staff Regulatory Specialist
<b>DATE</b> 4/2/2014		



RECEIVED: May. 19, 2014



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (*Solid, used for fuel, vented, etc.*)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	1065
				BIRD'S NEST	1460
				MAHOGANY	2021
				WASATCH	4319
				MESAVERDE	6434

## 32. Additional remarks (include plugging procedure):

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. The well was originally completed in the Mesaverde from 7589-8558. The well was recompleted with an iso plug set at 7580 ft and new perforations in the Mesaverde from 6420-7566 and in the Wasatch from 4881-6392. The iso plug was drilled out on 5/13/14 and the well is producing from all commingled perforations.

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (*please print*) ILA J. BEALETitle STAFF REGULATORY SPECIALISTSignature Date 5-19-2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

RECEIVED: May. 19, 2014



US ROCKIES REGION  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED				Spud Date: 9/13/2012				
Project: UTAH-UINTAH			Site: BONANZA 1023-5D PAD				Rig Name No: MILES-GRAY 1/1	
Event: RECOMPL/RESEREVEADD			Start Date: 3/31/2014				End Date: 4/1/2014	
Active Datum: RKB @5,254.00usft (above Mean Sea Level)			UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/10/2014	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, ROADING RIG & EQUIP.
	7:30 - 13:00	5.50	SUBSPR	30	A	P		1 OF 4, MIRU F/ NBU 1022-10B2AS, SICP & SITP 260 PSI, CONTROL TBG W/ 20 BBLS ND WH NU BOPS UNLAND TBG L/D HANGER, RU SCAN TECH.
	13:00 - 17:30	4.50	SUBSPR	31	I	P		SCAN OUT W/ 252 JTS, 103 L-80 YELLOW, 6' L-80 PUP, 149 J-55 YELLOW 3 BAD CRIMED W/ TONGS, L/D L.S.N, RD SCAN TECH SWI LOCKED RAMS SDFN.
								TBG F/ WELL TO SAMEULS YARD 103 JTS 23/8 L-80 YELLOW 146 JTS 23/8 J-55 YELLOW 3 JTS 23/8 J-55 YELLOW CRIMED BY TONGS. 6 'L-80 PUP JT
3/11/2014	7:00 - 7:30	0.50	SUBSPR	48		P		HSM, WORKING W/ WIRE LINE.
	7:30 - 11:00	3.50	SUBSPR	34	I	P		2 OF 4, SICP 664 PSI, BLEW WELL DWN, CONTROL WELL W/ 30 BBLS T-MAC, RU CASD HOLE, RIH W/ 41/2 GAUGE RING TO 7596' POOH RIH SET CBP @ 7580' POOH RD WL. FILL HOLE W/ 70 BBLS, TEST CSG TO 3,000 PSI W/ RIG PUMP. ND BOPS NU FV. RIG DOWN, FINAL. CAMERON TESTED CSG & FV TO 6200 FOR 15 MIN LOST 64 PSI GOOD TEST.
3/12/2014	7:00 - 8:00	1.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
3/25/2014	7:00 - 7:15	0.25	FRAC	48		P		HSM, CHECKING VALVES



## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES-GRAY 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 3/31/2014

End Date: 4/1/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:30	10.25	FRAC	36	B	P		<p>REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS</p> <p>FRAC STG #1] WHP=152#, BRK DN PERFS=3,201#, @=5.2 BPM, INTIAL ISIP=1,729#, FG=.67, FINAL ISIP=2,206#, FG=.73,</p> <p>SET PLUG &amp; PERFORATE STG #2</p> <p>FRAC STG #2] WHP=398#, BRK DN PERFS=4,519#, @=4.2 BPM, INTIAL ISIP=2,380#, FG=.77, FINAL ISIP=2,395#, FG=.77,</p> <p>SET PLUG &amp; PERFORATE STG #3</p> <p>FRAC STG #3] WHP=1,057#, BRK DN PERFS=4,461#, @=3.7 BPM, INTIAL ISIP=2,214#, FG=.77, FINAL ISIP=2,169#, FG=.76,</p> <p>SET PLUG &amp; PERFORATE STG #4</p> <p>FRAC STG #4] WHP=450#, BRK DN PERFS=2,925#, @=3.9 BPM, INTIAL ISIP=1,330#, FG=.64, FINAL ISIP=2,022#, FG=.75,</p> <p>SET PLUG PERFORATE STG #5</p> <p>FRAC STG #5] WHP=1,015#, BRK DN PERFS=2,160#, @=6.8 BPM, INTIAL ISIP=1,539#, FG=.68, FINAL ISIP=2,152#, FG=.78,</p> <p>SET PLUG AND PERFORATE STG #6</p> <p>FRAC STG #6] WHP=652#, BRK DN PERFS=4,482#, @=5.7 BPM, INTIAL ISIP=1,545#, FG=.69, FINAL ISIP=1,767#, FG=.73,</p> <p>SET PLUG AND PERFORATE STG #7</p>
3/26/2014	6:15 - 6:30	0.25	FRAC	48		P		<p>swifn.</p> <p>HSM, RIGGING DOWN / PINCH POINTS</p>



## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES-GRAY 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 3/31/2014

End Date: 4/1/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:30 - 12:00	5.50	FRAC	36	B	P		FRAC STG #7] WHP=1,065#, BRK DN PERFS=2,221#, @=4.4 BPM, INTIAL ISIP=1,209#, FG=.65, FINAL ISIP=1,564#, FG=.71,  SET PLUUG AND PERFORATE STG #8  FRAC STG #8] WHP=1,340#, BRK DN PERFS=4,597#, @=6.4 BPM, INTIAL ISIP=1,628#, FG=.74, FINAL ISIP=1,582#, FG=.73,  SET PLUG AND PERFORATE STG #9  FRAC STG #9] WHP=468#, BRK DN PERFS=1,100#, @=2.1 BPM, INTIAL ISIP=364#, FG=.51, FINAL ISIP=1,039#, FG=.63,  SET TOP KILL  TOTAL BBLs=6,081 TOTAL SAND=140,974#
3/31/2014	7:00 - 7:15	0.25	DRLOUT	48		P		JSA= MOVING RIG & EQUIP
	7:15 - 17:00	9.75	DRLOUT	30		P		RD RIG ON 8B2 PAD MOVE RIG & EQUIP TO 5D PAD SPOT RIG & RU ON 5D2DS SPOT EQUIP & TUBING ND W/H NU BOPS RU FLOOR & TUBING EQUIP PU PUMP OPEN B.S. TALLY & PU 150 JNTS J-55 6' X 2-3/8" L-80 PUP PU L-80 TAG @ 4800' RU DRLG EQUIP PREP TO D/O SIW SDFN
4/1/2014	7:00 - 7:15	0.25	DRLOUT	48		P		JSA= FOAM UNIT



## Operation Summary Report

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES-GRAY 1/1

Event: RECOMPL/RESEREVEADD

Start Date: 3/31/2014

End Date: 4/1/2014

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/N/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 18:30	11.25	DRLOUT	44	C	P		<p>TEST BOPS TO 3000 PSI EST CIRC W/ FOAM UNIT DRILL THRU 1 CBP PLUG #1] DRILL THRU CBP @ 4831' IN 10 MIN W/ 0 PSI INCREASE</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 5164' (12' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 5176' IN 8 MIN W/ 50 PSI INCREASE</p> <p>PLUG #3] CONTINUE TO RIH TAG SAND @ 5521' (25' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 5546' IN 10 MIN W/ 50 PSI INCREASE</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 5898' (15' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 5913' IN 6 MIN W/ 0 PSI INCREASE</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 6157' (20' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 6177' IN 9 MIN W/ 150 PSI INCREASE</p> <p>PLUG #6] CONTINUE TO RIH TAG SAND @ 6395' (15' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 6410' IN 7 MIN W/ 0 PSI INCREASE</p> <p>PLUG #7] CONTINUE TO RIH TAG SAND @ 6608' (12' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 6625' IN 6 MIN W/ 0 PSI INCREASE</p> <p>PLUG #8] CONTINUE TO RIH TAG SAND @ 6836' (25' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 6861' IN 6 MIN W/ 200 PSI INCREASE</p> <p>PLUG #9] CONTINUE TO RIH TAG SAND @ 7321' (12' FILL) C/O &amp; DRILL THRU HALLI 8K CBP @ 7333' IN 5 MIN W/ 100 PSI INCREASE</p> <p>ISOLATION PLG] CONTINUE TO RIH TAG SAND 7556' (40' FILL) C/O TO ISO PLUG @ 7596' CIRC CLEAN RD DRLG EQUIP LD 9 JNTS LAND TUB ON HNGR RD FLOOR &amp; TUB EQUIP ND BOPS NU W/H PUMP OPEN BIT SUB @ 1200 PSI SIW SDFN</p> <p>TUBING DETAIL</p> <p>K.B.....14.00'</p> <p>HNGR.....83"</p> <p>82 JNTS L-80.....2575.52'</p> <p>6"X2-3/8" L-80 PUP.....6.05</p> <p>150 JNTS J-55.....4714.59'</p> <p>PMP OPEN B.S.....2.20'</p> <p>EOT @.....7313.19'</p> <p>TOTAL FLUID PMPED.....6081 BBLS</p> <p>RIG REC.....1000 BBLS</p> <p>LEFT TO REC.....5081 BBLS</p>



US ROCKIES REGION  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED

Spud Date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig Name No: MILES 3/3

Event: RECOMPL/RESEREVEADD

Start Date: 5/12/2014

End Date:

Active Datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/12/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, RIGGING DOWN & MOVING RIG ON MUDDY ROADS
	7:30 - 11:30	4.00	DRLOUT	30	A	P		RIGGED DOWN OFF NBU 1022-2P4BS, MOVED RIG TO LOCATION, SPOT RIG WAIT ON WIND.
	11:30 - 12:30	1.00	DRLOUT	31	1	P		SICP 600 PSI CDC DIDN'T HAVE WELL OPEN, FTP 300, CONTROL TBG W/ 20 BBLs, ND WH NU BOPS, LUB OUT HANGER.
	12:30 - 16:30	4.00	DRLOUT	31	I	P		POOH W/ 82 JTS 23/8 L-80, 6' L-80 PUP JT, 150 JTS 23/8 J-55, L/D PUMP OPEN SUB & BIT. RIH W/ 37/8 MILL POBS, 1.875 X/N 150 JTS 23/8 J-55, PUP JT, 82 JTS 23/8 L-80 PU 8 JTS, TAG UP @ 7567' RU SWIVEL PREP TO D/O ISOLATION PLUG IN AM. SWI SDFN.
5/13/2014	7:00 - 7:30	0.50	DRLOUT	48		P		HSM, WORKING W/ FOAM UNIT, CHECKING WELL FOR H2S.
	7:30 - 10:00	2.50	DRLOUT	44	C	P		1 OF 4, SICP 1,000 OPEN TO FB TNK, BROKE CIRC W/ AIR/FOAM, C/O 27' SAND D/O ISOLATION PLUG @ 7580' IN 2 MIN 0 PSI INCREASE, KILL TBG PULL 2 JTS REM TSF.
	10:00 - 17:00	7.00	DRLOUT	31	I	P		RIH TAG UP @ 8553', BROKE CIRC C/O SAND F/ 8553 TO 8566 HIT OLD POBS, CIR CLN W/ AIR/FOAM, KILL TBG RD SWIVEL, L/D 120 JTS L-80, POOH W/ 3 JTS L-80, PUP JT, 150 JTS J-55 L/D POBS, RIH W/ 1.875 NOTCHED X/N & 150 JTS J-55, 6' L-80 PUP, 3 JTS 23/8 L-80, LAND TBG ND BOPS NU WH SWI SDFN. WELL READY FOR PRODUCTION LOGGING.
KB = 15' HANGER = .83' 3 JTS 23/8 L-80 = 94.20' L-80 PUP JT = 6.05' 150 JTS 23/8 J-55 = 4714.59' 1.875 X/N = 1.05' EOT @ 4831.72' TWLTR 70 BBLs								



US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	BONANZA 1023-5D2DS RED	Wellbore No.	OH
Well Name	BONANZA 1023-5D2DS	Wellbore Name	BONANZA 1023-5D2DS
Report No.	1	Report Date	3/10/2014
Project	UTAH-JUNTAH	Site	BONANZA 1023-5D PAD
Rig Name/No.		Event	RECOMPL/RESEERVEADD
Start Date	3/31/2014	End Date	4/1/2014
Spud Date	9/13/2012	Active Datum	RKB @5,254.00usft (above Mean Sea Level)
UWI	NWNW/0710/S/23/E/5/0/0/26/PMN/514W/0/516/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	4,881.0 (usft)-7,566.0 (usft)	Start Date/Time	3/10/2014 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	60	End Date/Time	3/10/2014 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	207	Net Perforation Interval	69.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	WASATCH/			4,881.0	4,882.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N



US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	WASATCH/			4,884.0	4,885.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			4,893.0	4,896.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,128.0	5,129.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,145.0	5,146.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,420.0	5,422.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,449.0	5,450.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,466.0	5,467.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,478.0	5,480.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,515.0	5,516.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,614.0	5,616.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,636.0	5,638.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,802.0	5,804.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,882.0	5,883.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,933.0	5,934.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,962.0	5,963.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,971.0	5,972.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			5,990.0	5,991.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,038.0	6,039.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,123.0	6,124.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,145.0	6,146.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,151.0	6,152.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N



US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	WASATCH/			6,189.0	6,190.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,211.0	6,212.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,252.0	6,253.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,276.0	6,277.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,378.0	6,379.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,385.0	6,386.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	WASATCH/			6,390.0	6,392.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,420.0	6,421.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,429.0	6,430.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,514.0	6,515.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,518.0	6,519.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,533.0	6,534.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,569.0	6,570.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,588.0	6,590.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,654.0	6,655.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,698.0	6,699.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,728.0	6,729.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,733.0	6,734.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,752.0	6,753.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,765.0	6,766.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			6,813.0	6,814.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N



US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
3/10/2014 12:00AM	MESAVERDE/			6,847.0	6,848.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,145.0	7,146.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,151.0	7,152.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,155.0	7,156.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,183.0	7,184.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,197.0	7,198.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,199.0	7,200.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,229.0	7,230.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,302.0	7,303.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,359.0	7,360.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,384.0	7,385.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,446.0	7,447.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,463.0	7,464.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,466.0	7,467.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,472.0	7,473.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,543.0	7,544.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N
3/10/2014 12:00AM	MESAVERDE/			7,565.0	7,566.0	3.00		0.410	EXP/	3.125	120.00		19.00	PRODUCTIO	N

Plots

May 3 19, 2014



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU33433
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> PONDEROSA
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> BONANZA 1023-5D2DS
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0514 FNL 0516 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 05 Township: 10.0S Range: 23.0E Meridian: S		<b>9. API NUMBER:</b> 43047520930000
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/5/2015  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<b>TYPE OF ACTION</b>  <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> A WORKOVER FOR TUBING OBSTRUCTION HAS BEEN COMPLETED ON THE BONANZA 1023-5D2DS, SEE THE ATTACHED OPERATIONS SUMMARY REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> October 20, 2015		
<b>NAME (PLEASE PRINT)</b> Doreen Green	<b>PHONE NUMBER</b> 435 781-9758	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/20/2015	



**US ROCKIES REGION**  
**Operation Summary Report**

Well: BONANZA 1023-5D2DS RED

Spud date: 9/13/2012

Project: UTAH-UINTAH

Site: BONANZA 1023-5D PAD

Rig name no.: ROCKY MOUNTAIN WELL SERVICE  
1/1

Event: WELL WORK EXPENSE

Start date: 9/23/2015

End date: 9/25/2015

Active datum: RKB @5,254.00usft (above Mean Sea Level)

UWI: NW/NW/0/10/S/23/E/5/0/0/26/PM/N/514/W/0/516/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
9/23/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM-JSA
	7:15 - 17:00	9.75	MAINT	45	A	P		MIRU, CNTRL WELL W/ 20 BBLS TMAC, NDWH, NUBOP, UNLAND TBG, PU 6 JTS TBG RIH TAG FILL @ 8178' BTM PERF 8558', POOH SCAN & LD 254 JTS TBG 125 JTS YB, 78 JTS BB, 21 JTS BB 23-30% WL, 30 JTS RB, PU 3 7/8" MILL RIH W/ 55 JTS TBG TO 1750', SWI, SDFN.
9/24/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM-JSA
	7:15 - 17:00	9.75	MAINT	44	D	P		SICP 500 PSI, CNTRL WELL W/ 20 BBLS TMAC, CONT TO PU TBG RIH TAG FILL @ 8178', RU PWR SWVL, MIRU WTRFD N2 FOAM UNIT, BRK CIRC, C/O TO 8200' BRK FREE, RIH TAG FILL @ 8540', C/O TO 8573' TAG OLD POBS, CIRC CLN, RD PWR SWVL, POOH LD 18 JTS TBG STD BK 100 JTS, SWI, SDFN.
9/25/2015	7:00 - 7:15	0.25	MAINT	48		P		HSM-JSA
	7:15 - 15:00	7.75	MAINT	31	I	P		SICP 650 PSI, CNTRL WELL W/ 20 BBLS TMAC, POOH STD BK 154 JTS TBG LD MILL, PU XN NOTCH COLLAR RIH W/ 254 JTS TBG LAND @ 8021.02', BRCH TBG TO SN, RD FLOOR & TBG EQUIP, NDBOP, NUWH, RDMO, BLOW WELL ARND W/ N2 FOAM UNIT, RDMO N2 FOAM UNIT, SWI, SDFWE.  KB-15' HANGER- .83' 51 JTS P-110- 1619.61' L-80 PUP JT- 4.09' 82 JTS L-80- 2569.21' L-80 PUP JT- 6.13' 121 JTS J-55- 3805.10' XN NOTCH- 1.05 EOT @ 8021.02' PBTD- 8573'
9/28/2015	7:00 - 11:00	4.00	MAINT	42		P		FLUID LEVEL 2200
9/29/2015	7:00 - 14:00	7.00	PROD	42		P		SWABBING FL 4400
9/30/2015	7:00 - 13:00	6.00	PROD	42		P		SWABBING FL 4700
10/5/2015	7:00 - 11:00	4.00	PROD	42		P		SWABBING FL 5050